Exercises

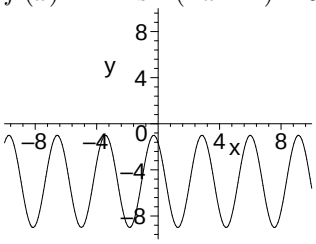
Graph these functions!

1. $f(x) = -4 \sin(2x - 1) - 5$
2. $f(x) = 3 \tan(2x + 2) - 4$
3. $f(x) = \cos(2\pi x + 5) + 5$
4. $f(x) = 2 \tan(x + 2) - 4$
5. $f(x) = 3 \sec(2\pi x + 3) + 2$
6. $f(x) = -2 \tan(2\pi x - 5) - 2$
7. $f(x) = 2 \sin(2x + 1) + 2$
8. $f(x) = -4 \cot(2x + 1) - 5$
9. $f(x) = 2 \tan(x + 4)$
10. $f(x) = -3 \cos(x + 4)$
11. $f(x) = 4 \sec(2\pi x - 1) + 1$
12. $f(x) = -2 \sec(x + 1)$
13. $f(x) = 4 \cot(2\pi x + 2) - 5$
14. $f(x) = \sec(2x + 4) - 5$
15. $f(x) = -\sin(2x - 3)$
16. $f(x) = 4 \cos(x - 3) - 3$
17. $f(x) = -2 \cot(x + 1)$
18. $f(x) = -3 \sec(x - 4) - 2$
19. $f(x) = 4 \sin(x - 5) + 5$
20. $f(x) = 3 \cot(x - 5) + 1$
21. $f(x) = -\cot(2x + 3) + 1$
22. $f(x) = -2 \cot(\pi x + 3) + 2$
23. $f(x) = -\sin(x) + 3$
24. $f(x) = -4 \cot(\pi x + 4) + 2$
25. $f(x) = 4 \cos(2x) + 5$
26. $f(x) = 2 \tan(2x - 3)$
27. $f(x) = -3 \tan(\pi x + 3) + 5$
28. $f(x) = -4 \tan(x - 4) - 3$
29. $f(x) = 3 \tan(\pi x + 1) + 5$
30. $f(x) = -\sec(x - 5) + 5$
31. $f(x) = 3 \cos(x - 1) - 1$
32. $f(x) = -4 \sin(2x + 1) + 2$
33. $f(x) = -3 \sec(x + 2) + 5$
34. $f(x) = -3 \cos(x - 3) + 3$
35. $f(x) = -2 \sin(x) + 5$
36. $f(x) = -2 \cot(\pi x - 2) - 3$
37. $f(x) = -3 \sec(2x - 4) - 2$
38. $f(x) = -3 \sec(x + 1) - 1$
39. $f(x) = 4 \sec(x - 2) - 3$
40. $f(x) = -2 \cos(x - 4) - 5$
41. $f(x) = -3 \cos(2\pi x + 3) + 2$
42. $f(x) = 4 \cos(2x - 2) - 5$
43. $f(x) = 2 \cot(x) - 2$
44. $f(x) = -\tan(x + 1) + 3$
45. $f(x) = 4 \cos(2x) + 4$
46. $f(x) = 4 \cos(2\pi x - 4) + 4$
47. $f(x) = 3 \cot(x - 3) + 5$
48. $f(x) = \cos(2x) - 2$
49. $f(x) = -\sec(x) - 3$
50. $f(x) = -4 \sin(2x) + 1$
51. $f(x) = 3 \sec(x - 3)$
52. $f(x) = \cos(2x) - 3$
53. $f(x) = \cos(2x + 1) - 3$

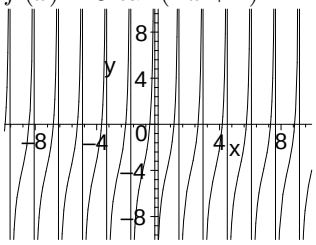
54. $f(x) = -3 \tan(\pi x - 5)$
55. $f(x) = -\cos(2x + 3) - 3$
56. $f(x) = \cot(x + 4) - 2$
57. $f(x) = 2 \cot(2x - 2) + 1$
58. $f(x) = -2 \cos(x - 3) + 3$
59. $f(x) = -\sec(2x + 5) + 5$
60. $f(x) = -3 \cos(x - 2) - 5$
61. $f(x) = 2 \cot(x - 3) + 2$
62. $f(x) = -3 \sin(2x - 1)$
63. $f(x) = \tan(x - 2) - 2$
64. $f(x) = 2 \sec(2x - 5) + 3$
65. $f(x) = -3 \sec(2x + 2) + 5$
66. $f(x) = \cos(x + 1) + 3$
67. $f(x) = 3 \cos(x + 5)$
68. $f(x) = 2 \cot(2\pi x + 1) - 5$
69. $f(x) = \sin(x) - 3$
70. $f(x) = 2 \sin(x + 3) + 4$
71. $f(x) = -4 \cot(x + 5) + 3$
72. $f(x) = 3 \cot(x + 1) + 1$
73. $f(x) = -\sec(2x) + 4$
74. $f(x) = 4 \tan(x - 1) - 2$
75. $f(x) = -2 \cot(x + 3) + 3$
76. $f(x) = -\cot(2\pi x - 3) - 3$
77. $f(x) = 4 \sec(x + 3)$
78. $f(x) = -\tan(2x - 3) + 5$
79. $f(x) = \cos(2x + 4) + 2$
80. $f(x) = 3 \sec(2x) - 3$
81. $f(x) = 4 \cos(x - 2) + 2$
82. $f(x) = 3 \cot(2x) + 4$
83. $f(x) = \cot(x + 5) - 1$
84. $f(x) = 3 \cot(x + 2) - 4$
85. $f(x) = \tan(x + 4) - 4$
86. $f(x) = -3 \sin(x - 3) - 4$
87. $f(x) = -4 \cos(2x + 4) - 4$
88. $f(x) = -3 \cos(2x - 1) + 1$
89. $f(x) = -2 \sin(2x + 2) - 1$
90. $f(x) = 2 \cos(2x) - 5$
91. $f(x) = 3 \sin(x - 5) + 1$
92. $f(x) = -2 \cos(2x - 2) + 3$
93. $f(x) = 4 \tan(2x - 4) + 2$
94. $f(x) = \sin(2x + 1) - 5$
95. $f(x) = -4 \cot(x + 5) - 5$
96. $f(x) = -3 \tan(x + 2) + 1$
97. $f(x) = -3 \cos(x - 1)$
98. $f(x) = 4 \cos(2x + 1) + 2$
99. $f(x) = 3 \sin(2x + 3) - 4$
100. $f(x) = 3 \cot(\pi x - 5) + 3$

Solutions

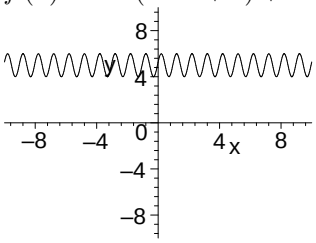
1. $f(x) = -4\sin(2x-1) - 5$



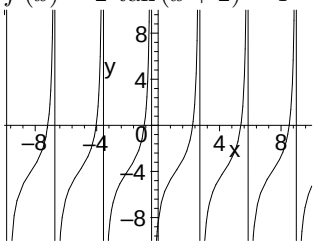
2. $f(x) = 3\tan(2x+2) - 4$



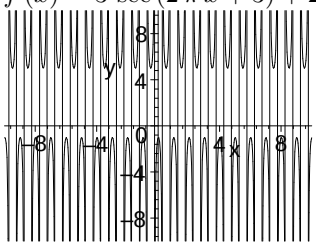
3. $f(x) = \cos(2\pi x + 5) + 5$



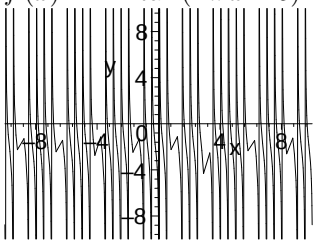
4. $f(x) = 2\tan(x+2) - 4$



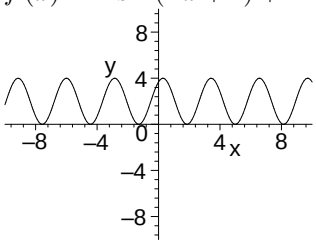
5. $f(x) = 3\sec(2\pi x + 3) + 2$



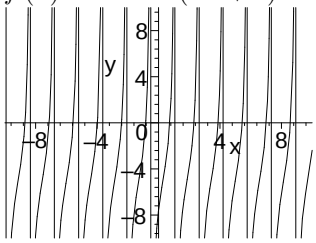
6. $f(x) = -2\tan(2\pi x - 5) - 2$



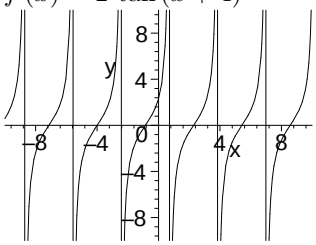
7. $f(x) = 2\sin(2x+1) + 2$



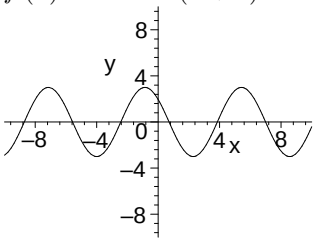
8. $f(x) = -4\cot(2x+1) - 5$



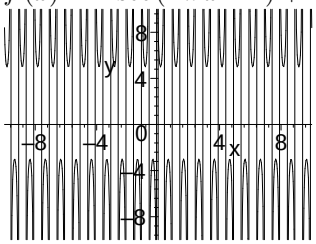
9. $f(x) = 2\tan(x+4)$



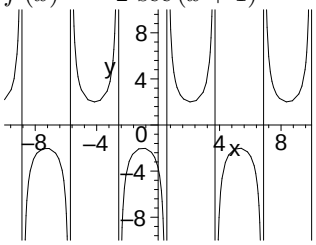
10. $f(x) = -3\cos(x+4)$



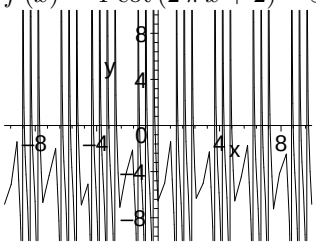
11. $f(x) = 4\sec(2\pi x - 1) + 1$



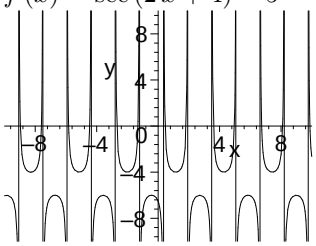
12. $f(x) = -2\sec(x+1)$



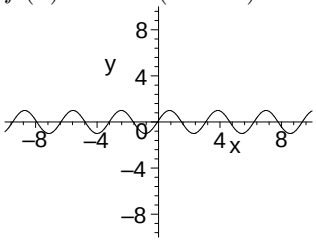
13. $f(x) = 4\cot(2\pi x + 2) - 5$



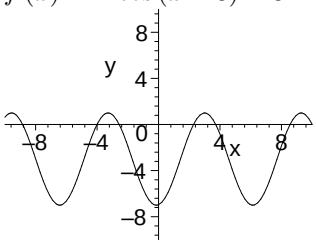
14. $f(x) = \sec(2x+4) - 5$



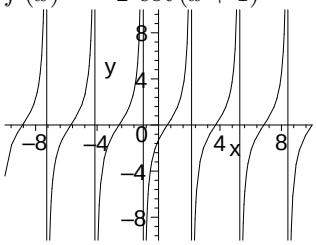
15. $f(x) = -\sin(2x-3)$



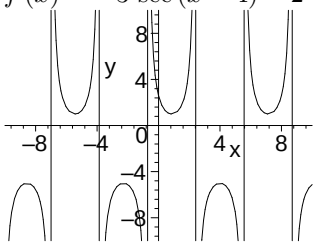
16. $f(x) = 4\cos(x-3) - 3$



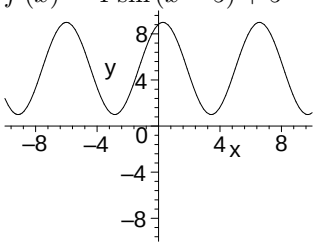
17. $f(x) = -2\cot(x+1)$



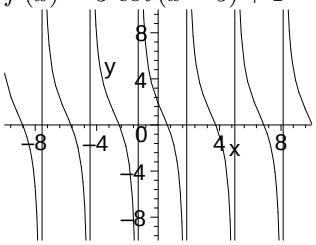
18. $f(x) = -3\sec(x-4) - 2$



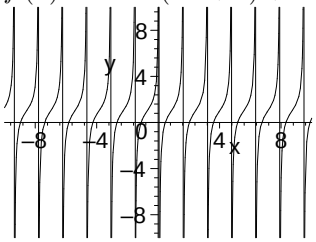
19. $f(x) = 4\sin(x-5) + 5$



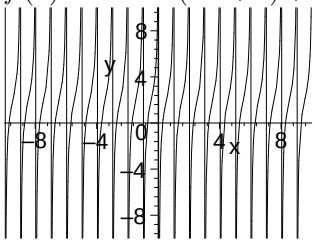
20. $f(x) = 3\cot(x-5)+1$



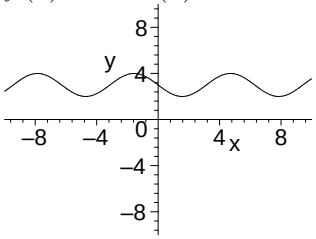
21. $f(x) = -\cot(2x+3)+1$



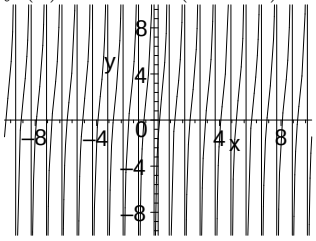
22. $f(x) = -2\cot(\pi x+3)+2$



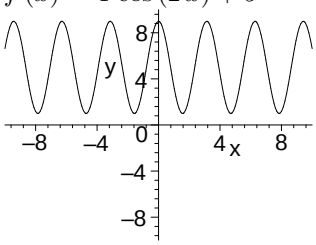
23. $f(x) = -\sin(x)+3$



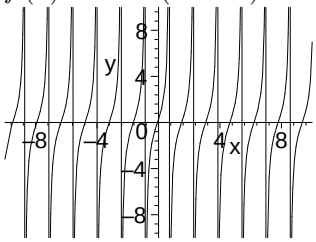
24. $f(x) = -4\cot(\pi x+4)+2$



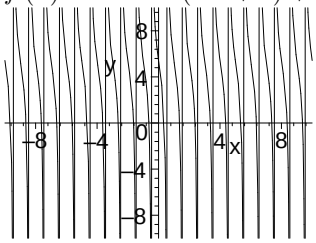
25. $f(x) = 4\cos(2x)+5$



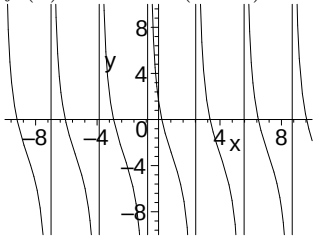
26. $f(x) = 2\tan(2x-3)$



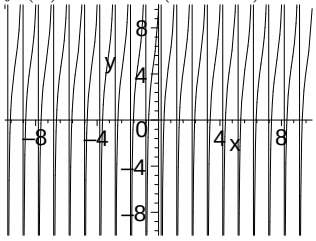
27. $f(x) = -3\tan(\pi x+3)+5$



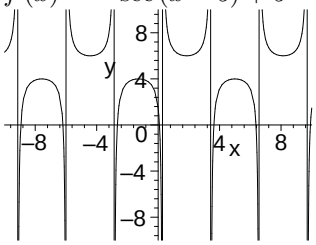
28. $f(x) = -4\tan(x-4)-3$



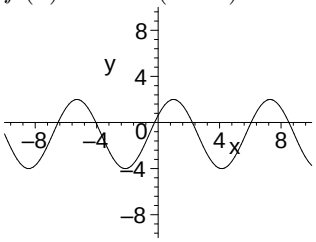
29. $f(x) = 3\tan(\pi x+1)+5$



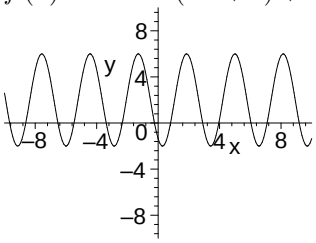
30. $f(x) = -\sec(x-5)+5$



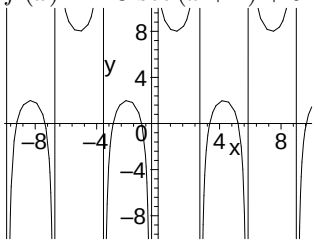
31. $f(x) = 3\cos(x-1)-1$



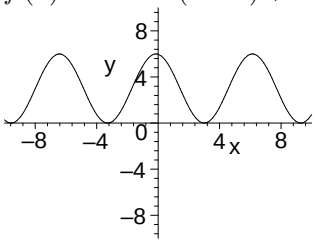
32. $f(x) = -4\sin(2x+1)+2$



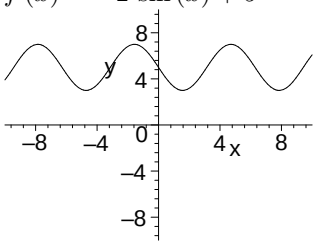
33. $f(x) = -3\sec(x+2)+5$



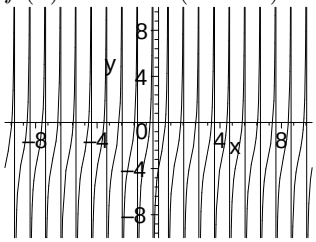
34. $f(x) = -3\cos(x-3)+3$



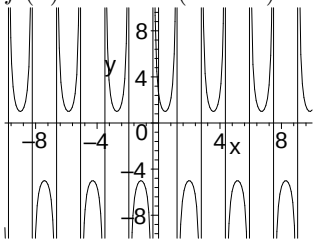
35. $f(x) = -2\sin(x)+5$



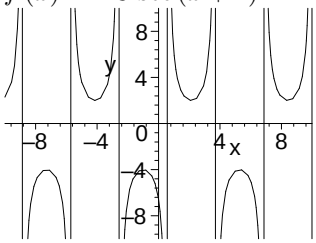
36. $f(x) = -2\cot(\pi x-2)-3$



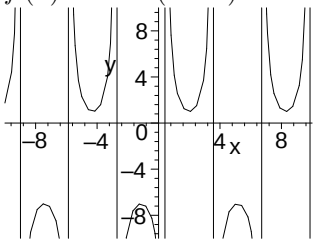
37. $f(x) = -3\sec(2x-4)-2$



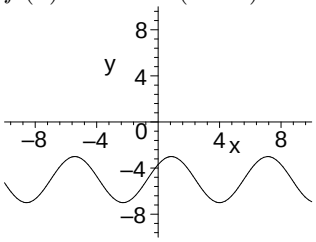
38. $f(x) = -3\sec(x+1)-1$



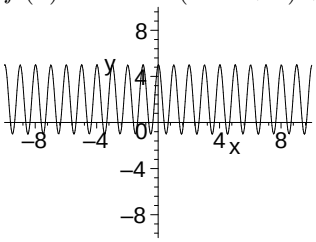
39. $f(x) = 4\sec(x-2)-3$



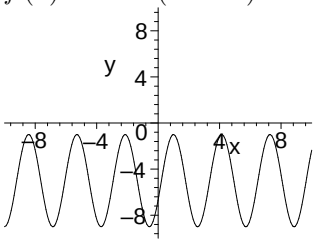
40. $f(x) = -2\cos(x-4) - 5$



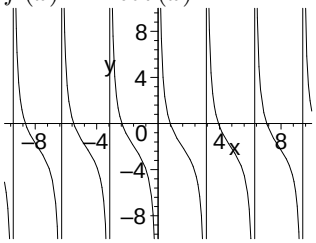
41. $f(x) = -3\cos(2\pi x + 3) + 2$



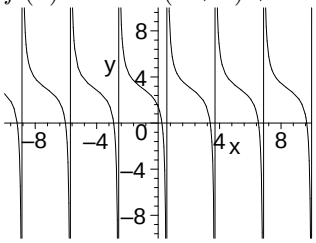
42. $f(x) = 4\cos(2x - 2) - 5$



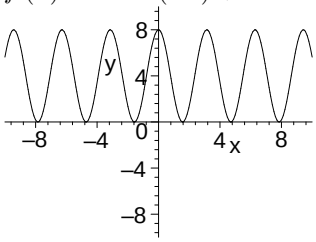
43. $f(x) = 2\cot(x) - 2$



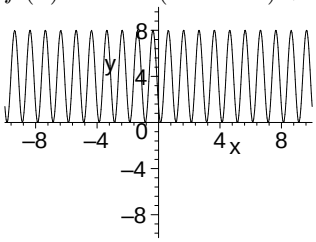
44. $f(x) = -\tan(x+1) + 3$



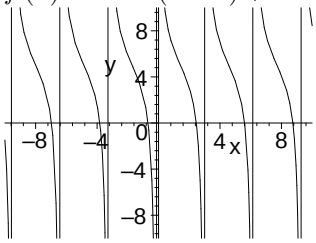
45. $f(x) = 4\cos(2x) + 4$



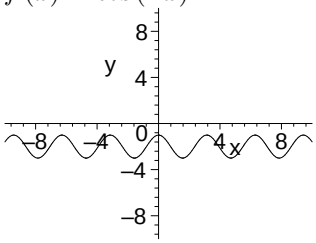
46. $f(x) = 4\cos(2\pi x - 4) + 4$



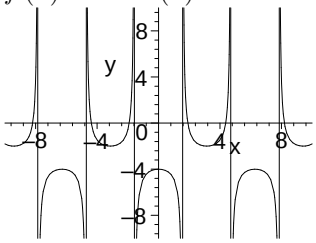
47. $f(x) = 3\cot(x-3) + 5$



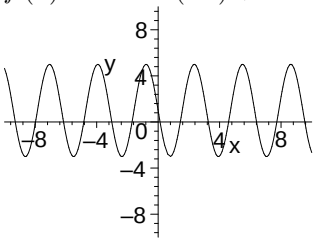
48. $f(x) = \cos(2x) - 2$



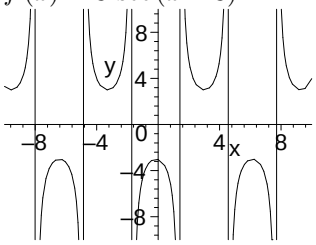
49. $f(x) = -\sec(x) - 3$



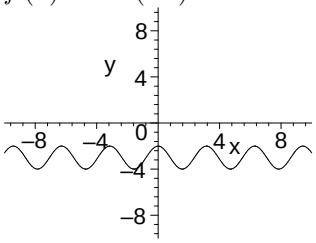
50. $f(x) = -4\sin(2x) + 1$



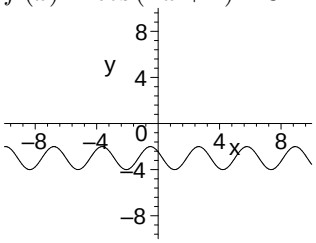
51. $f(x) = 3\sec(x - 3)$



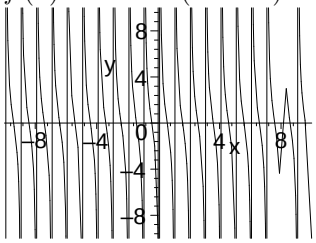
52. $f(x) = \cos(2x) - 3$



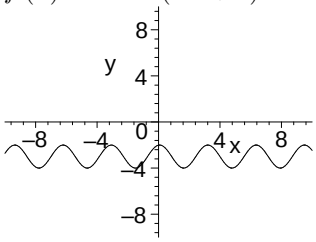
53. $f(x) = \cos(2x + 1) - 3$



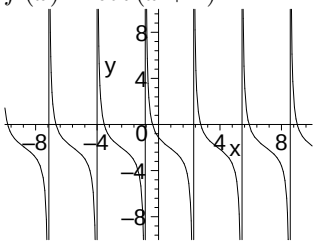
54. $f(x) = -3\tan(\pi x - 5)$



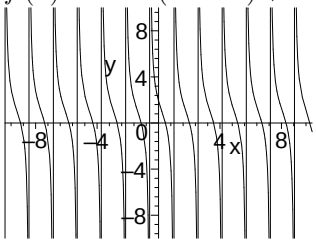
55. $f(x) = -\cos(2x + 3) - 3$



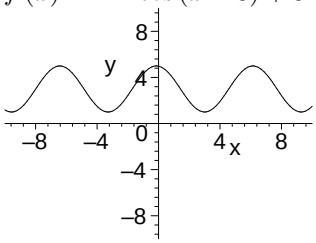
56. $f(x) = \cot(x + 4) - 2$



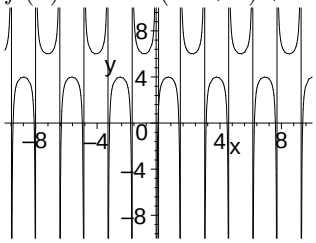
57. $f(x) = 2\cot(2x - 2) + 1$



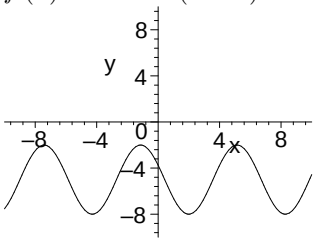
58. $f(x) = -2\cos(x - 3) + 3$



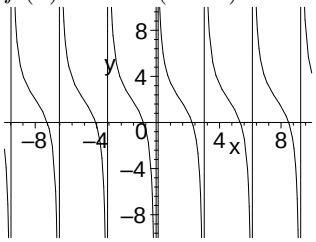
59. $f(x) = -\sec(2x + 5) + 5$



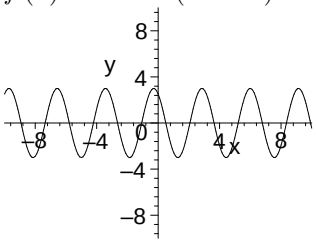
60. $f(x) = -3\cos(x-2) - 5$



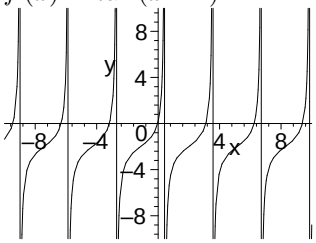
61. $f(x) = 2\cot(x-3) + 2$



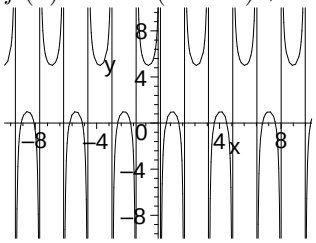
62. $f(x) = -3\sin(2x-1)$



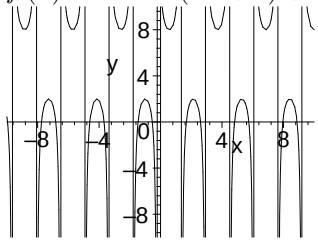
63. $f(x) = \tan(x-2) - 2$



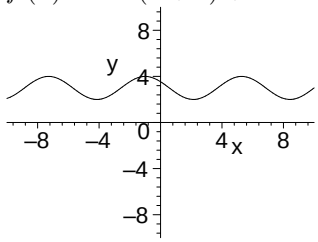
64. $f(x) = 2\sec(2x-5) + 3$



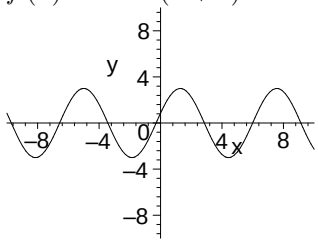
65. $f(x) = -3\sec(2x+2) + 5$



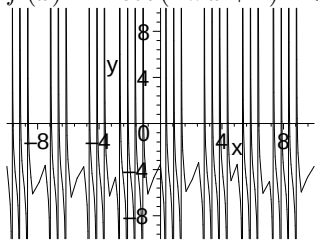
66. $f(x) = \cos(x+1) + 3$



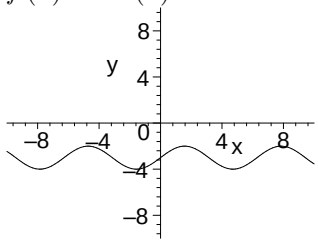
67. $f(x) = 3\cos(x+5)$



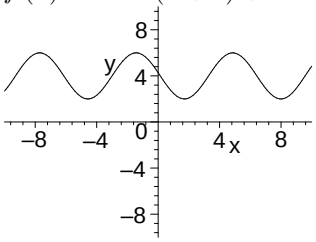
68. $f(x) = 2\cot(2\pi x + 1) - 5$



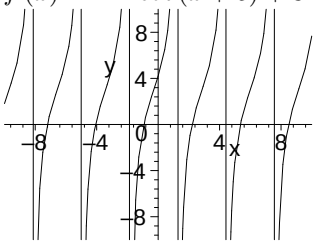
69. $f(x) = \sin(x) - 3$



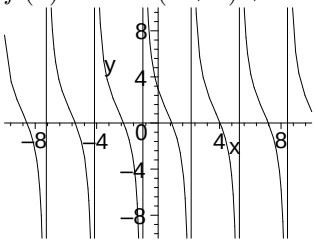
70. $f(x) = 2\sin(x+3)+4$



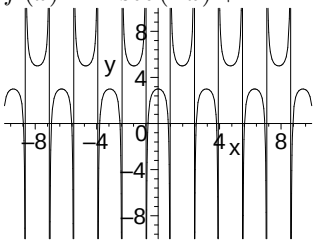
71. $f(x) = -4\cot(x+5)+3$



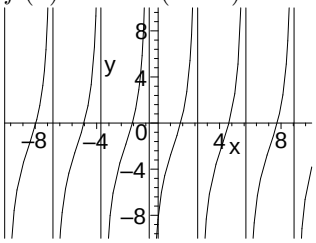
72. $f(x) = 3\cot(x+1)+1$



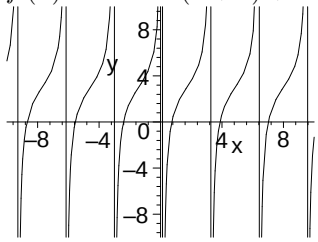
73. $f(x) = -\sec(2x)+4$



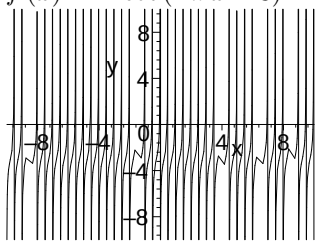
74. $f(x) = 4\tan(x-1)-2$



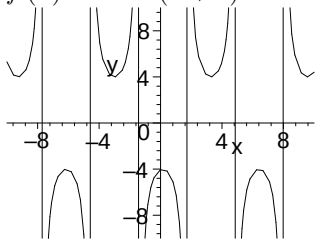
75. $f(x) = -2\cot(x+3)+3$



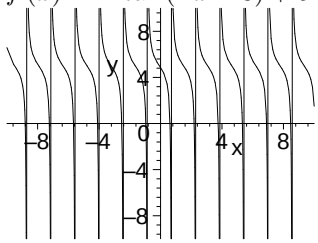
76. $f(x) = -\cot(2\pi x-3)-3$



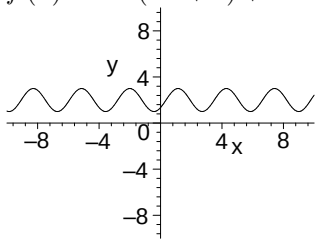
77. $f(x) = 4\sec(x+3)$



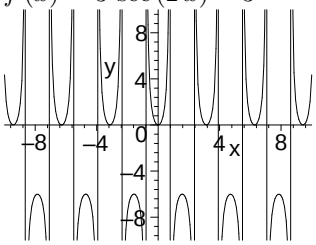
78. $f(x) = -\tan(2x-3)+5$



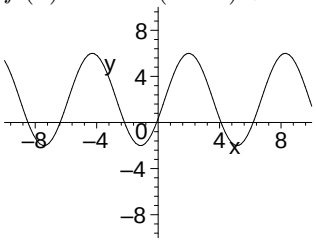
79. $f(x) = \cos(2x+4)+2$



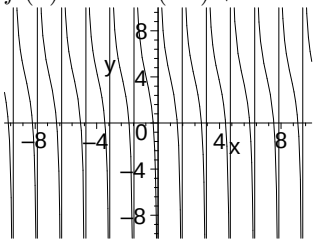
80. $f(x) = 3\sec(2x) - 3$



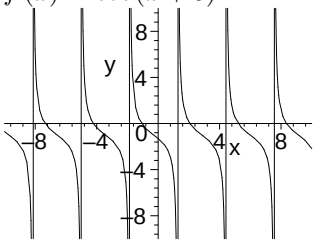
81. $f(x) = 4\cos(x - 2) + 2$



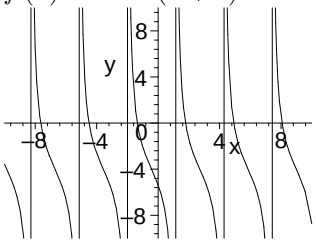
82. $f(x) = 3\cot(2x) + 4$



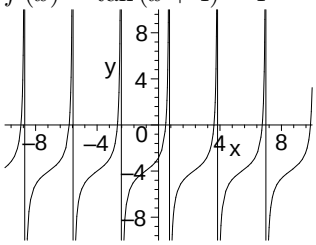
83. $f(x) = \cot(x + 5) - 1$



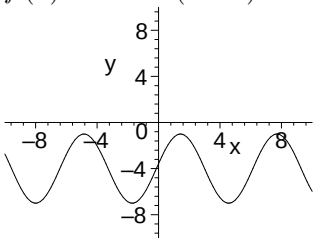
84. $f(x) = 3\cot(x + 2) - 4$



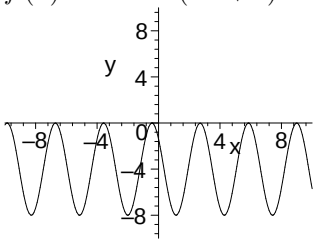
85. $f(x) = \tan(x + 4) - 4$



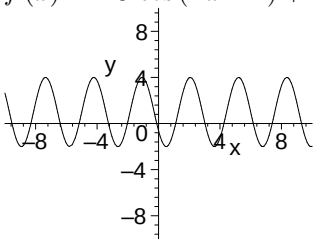
86. $f(x) = -3\sin(x - 3) - 4$



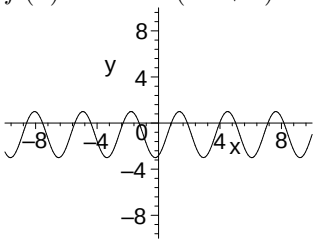
87. $f(x) = -4\cos(2x + 4) - 4$



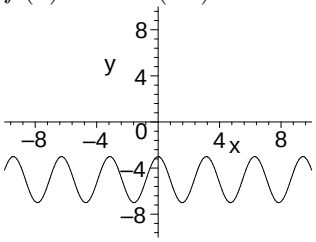
88. $f(x) = -3\cos(2x - 1) + 1$



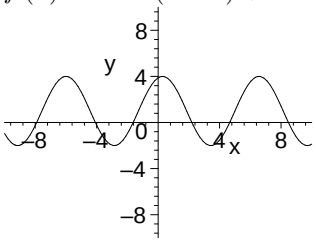
89. $f(x) = -2\sin(2x + 2) - 1$



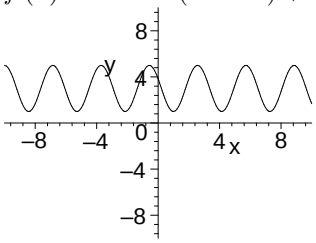
90. $f(x) = 2\cos(2x) - 5$



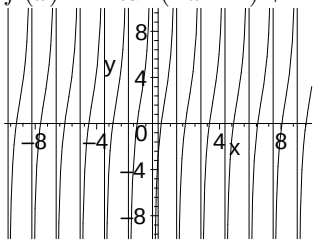
91. $f(x) = 3\sin(x - 5) + 1$



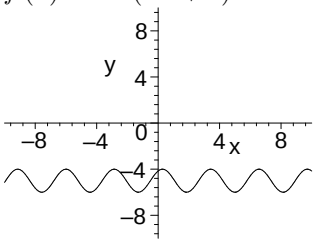
92. $f(x) = -2\cos(2x - 2) + 3$



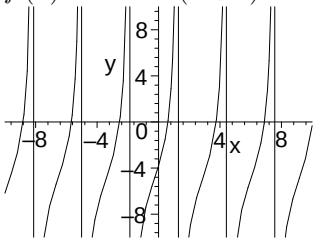
93. $f(x) = 4\tan(2x - 4) + 2$



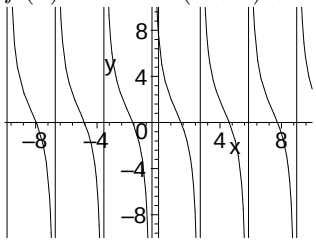
94. $f(x) = \sin(2x + 1) - 5$



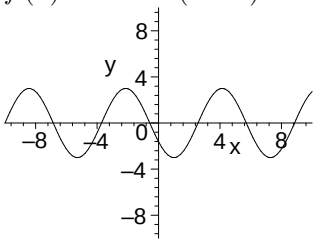
95. $f(x) = -4\cot(x + 5) - 5$



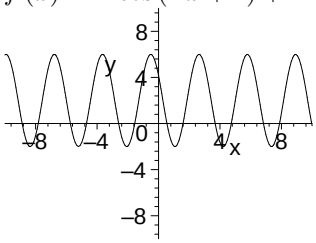
96. $f(x) = -3\tan(x + 2) + 1$



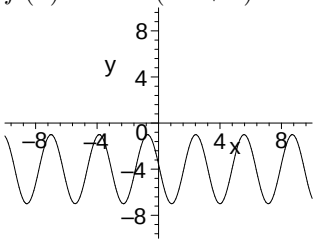
97. $f(x) = -3\cos(x - 1)$



98. $f(x) = 4\cos(2x + 1) + 2$



99. $f(x) = 3\sin(2x + 3) - 4$



100. $f(x) = 3\cot(\pi x - 5) + 3$