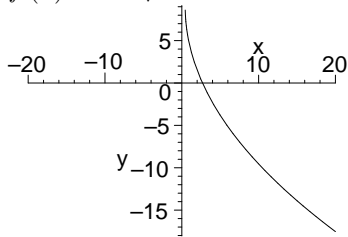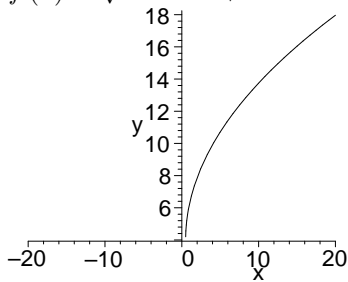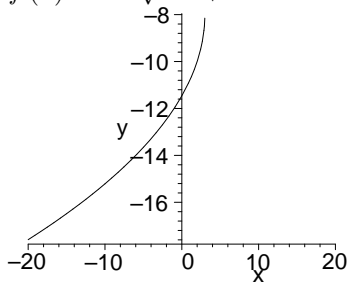# Exercises

Graph these functions!
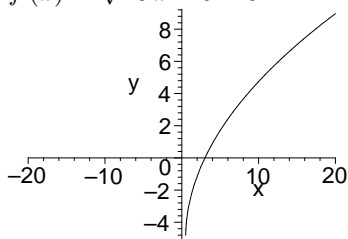
1. $f(x) = -2\sqrt{9x-4} + 9$
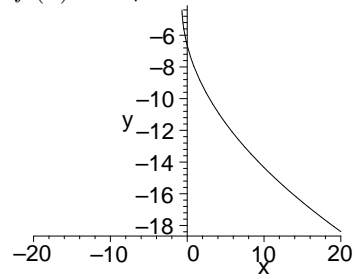
2. $f(x) = \sqrt{10x-5} + 4$
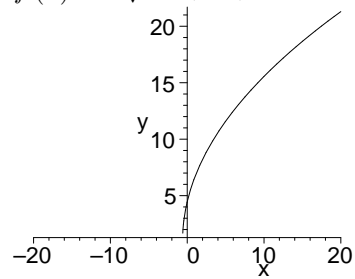
3. $f(x) = -2\sqrt{-x+3} - 8$
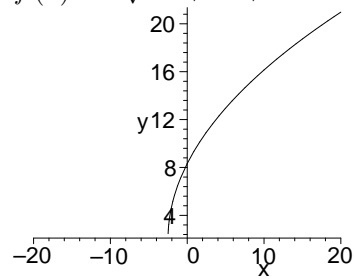
4. $f(x) = \sqrt{10x-5} - 5$
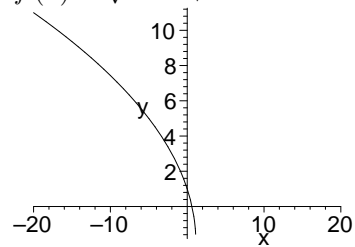
5. $f(x) = -\sqrt{10x+7} - 4$
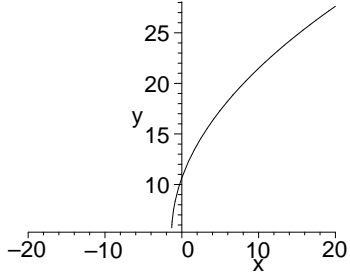
6. $f(x) = 2\sqrt{5x+3} + 1$
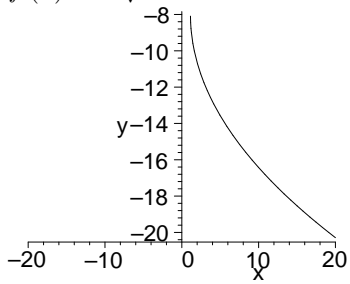
7. $f(x) = 2\sqrt{4x+10} + 2$
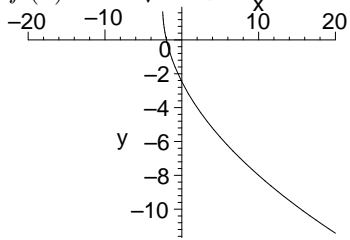
8. $f(x) = \sqrt{-8x+9} - 2$
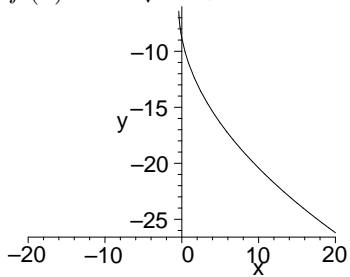
9. $f(x) = 2\sqrt{6x+8} + 5$
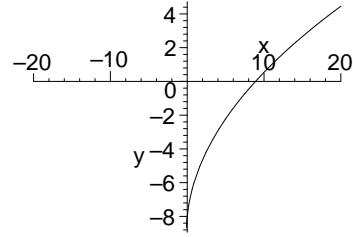
10. $f(x) = -\sqrt{8x-9} - 8$
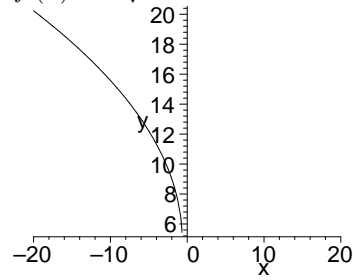
11. $f(x) = -2\sqrt{2x+5} + 2$
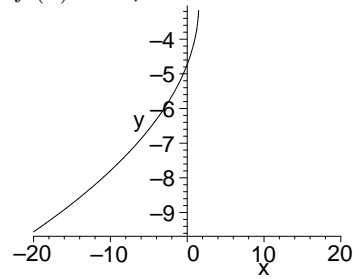
12. $f(x) = -2\sqrt{5x+2} - 6$
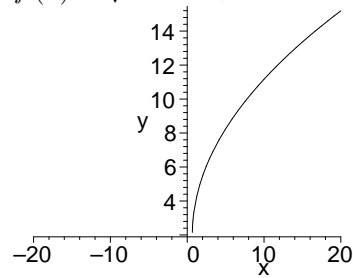
13. $f(x) = \sqrt{9x+1} - 9$
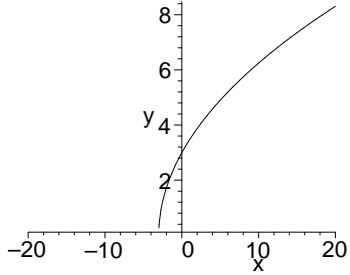
14. $f(x) = 2\sqrt{-3x-2} + 5$

15. $f(x) = -\sqrt{-2x+3} - 3$

16. $f(x) = \sqrt{9x-6} + 2$

17. $f(x) = \sqrt{3x+9}$

18. $f(x) = -\sqrt{5x+8} + 6$
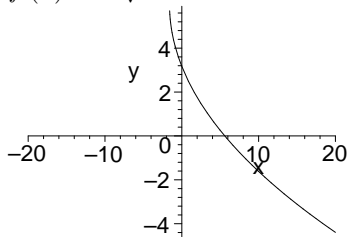
19. $f(x) = 2\sqrt{-x}$
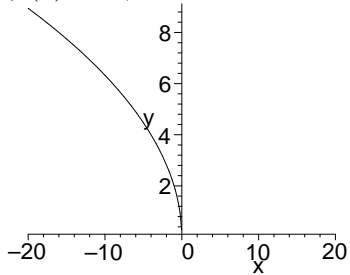
20. $f(x) = -\sqrt{9x-3} - 1$
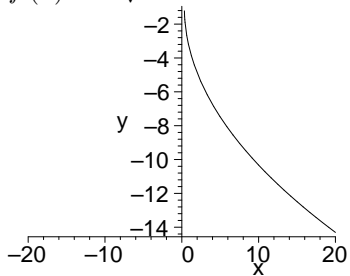
21. $f(x) = 2\sqrt{5x-10} - 7$
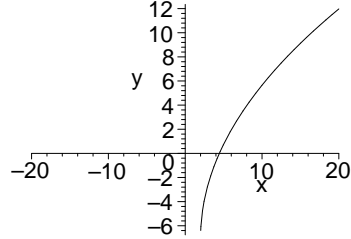
22. $f(x) = -2\sqrt{-5x+3} + 5$
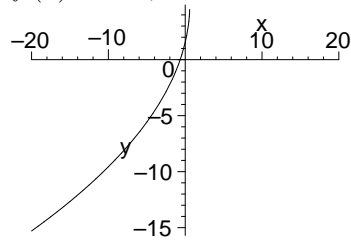
23. $f(x) = -\sqrt{-5x-3} + 7$

24. $f(x) = 4\sqrt{-x} + 5$

25. $f(x) = -2\sqrt{9x+5} + 9$

26. $f(x) = -2\sqrt{7x-6} + 9$
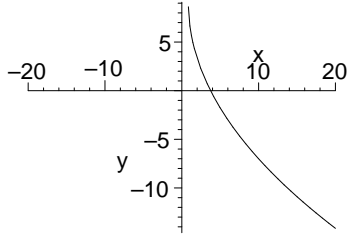
27. $f(x) = -\sqrt{-3x+6} - 2$

28. $f(x) = -2\sqrt{-x+9} - 7$

29. $f(x) = -\sqrt{-6x+8} - 5$

30. $f(x) = -\sqrt{x-4} - 4$
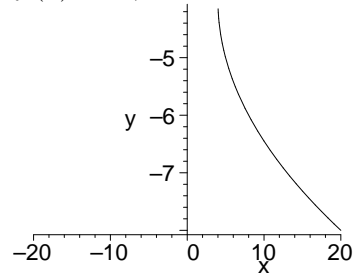
31. $f(x) = \sqrt{7x-3} + 1$

32. $f(x) = 2\sqrt{10x+7} - 8$

33. $f(x) = \sqrt{7x-1} - 7$

34. $f(x) = 2\sqrt{-6x+8} - 8$

35. $f(x) = -\sqrt{5x-2} + 7$

36. $f(x) = 2\sqrt{7x+2} - 4$

37. $f(x) = -2\sqrt{-4x+1} + 10$

38. $f(x) = \sqrt{-8x+5} - 7$

39. $f(x) = -\sqrt{-5x+10} - 2$

40. $f(x) = \sqrt{-7x+4} + 8$

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Solutions

1. $f(x) = -2\sqrt{9x - 4} + 9$

2. $f(x) = \sqrt{10x - 5} + 4$

3. $f(x) = -2\sqrt{-x + 3} - 8$

4. $f(x) = \sqrt{10x - 5} - 5$

5. $f(x) = -\sqrt{10x + 7} - 4$

6. $f(x) = 2\sqrt{5x + 3} + 1$

7. $f(x) = 2\sqrt{4x + 10} + 2$

8. $f(x) = \sqrt{-8x + 9} - 2$

2

9. $f(x) = 2\sqrt{6x+8} + 5$

13. $f(x) = \sqrt{9x+1} - 9$

10. $f(x) = -\sqrt{8x-9} - 8$

14. $f(x) = 2\sqrt{-3x-2} + 5$

11. $f(x) = -2\sqrt{2x+5} + 2$

15. $f(x) = -\sqrt{-2x+3} - 3$


12. $f(x) = -2\sqrt{5x+2} - 6$

16. $f(x) = \sqrt{9x-6} + 2$

3

17. $f(x) = \sqrt{3x + 9}$
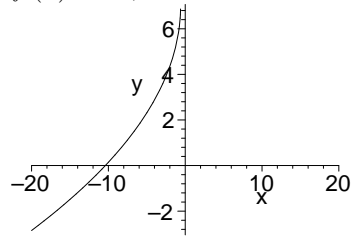
21. $f(x) = 2\sqrt{5x - 10} - 7$
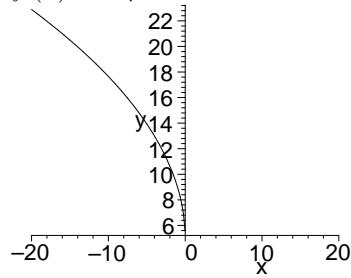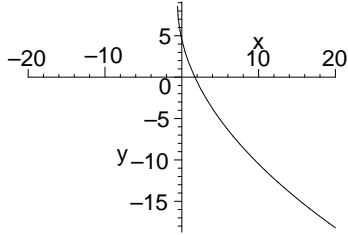
18. $f(x) = -\sqrt{5x + 8} + 6$

22. $f(x) = -2\sqrt{-5x + 3} + 5$

23. $f(x) = -\sqrt{-5x - 3} + 7$

19. $f(x) = 2\sqrt{-x}$

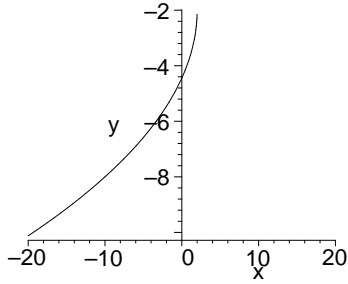24. $f(x) = 4\sqrt{-x} + 5$

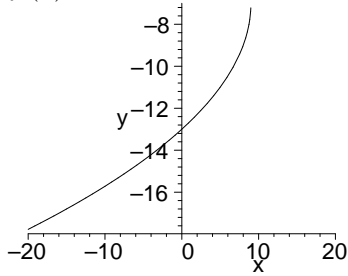20. $f(x) = -\sqrt{9x - 3} - 1$

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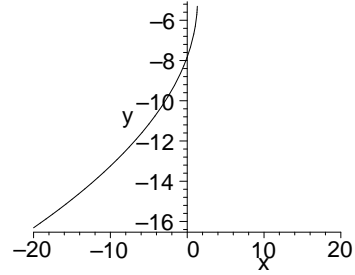25. $f(x) = -2\sqrt{9x+5} + 9$

26. $f(x) = -2\sqrt{7x-6} + 9$

27. $f(x) = -\sqrt{-3x+6} - 2$

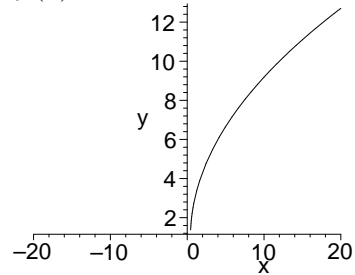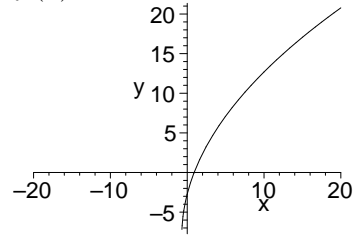28. $f(x) = -2\sqrt{-x+9} - 7$

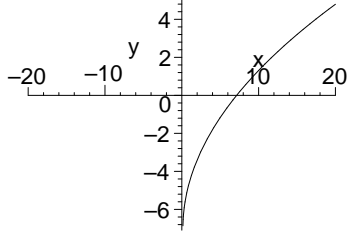29. $f(x) = -\sqrt{-6x+8} - 5$

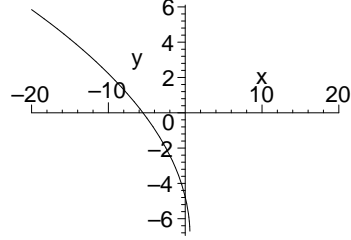30. $f(x) = -\sqrt{x-4} - 4$

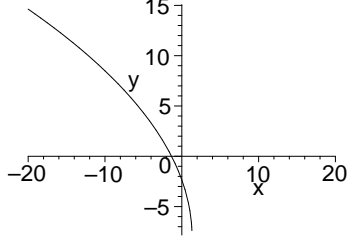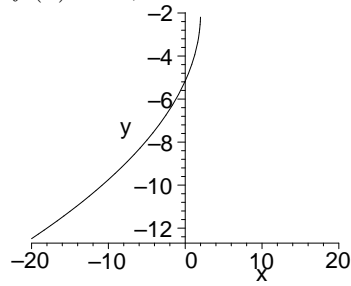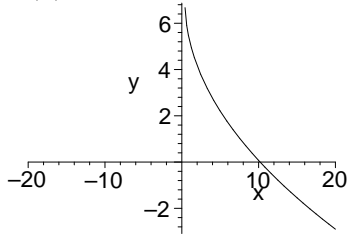31. $f(x) = \sqrt{7x-3} + 1$

32. $f(x) = 2\sqrt{10x+7} - 8$

5

33. $f(x) = \sqrt{7x - 1} - 7$

34. $f(x) = 2\sqrt{-6x + 8} - 8$

35. $f(x) = -\sqrt{5x - 2} + 7$

36. $f(x) = 2\sqrt{7x + 2} - 4$

37. $f(x) = -2\sqrt{-4x + 1} + 10$

38. $f(x) = \sqrt{-8x + 5} - 7$

39. $f(x) = -\sqrt{-5x + 10} - 2$

40. $f(x) = \sqrt{-7x + 4} + 8$

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