

Exercises

Graph these functions!

1. $f(x) = -3(-x + 3)^2 + 6$

2. $f(x) = 3(x + 4)^2 - 6$

3. $f(x) = -(x - 9)^2 + 6$

4. $f(x) = (x - 7)^2 + 8$

5. $f(x) = -(x - 9)^2 + 5$

6. $f(x) = -2(-x - 2)^2 - 10$

7. $f(x) = -3(-x + 7)^2 - 10$

8. $f(x) = -(-x - 7)^2 - 10$

9. $f(x) = 2(x - 4)^2 + 5$

10. $f(x) = -(-x - 8)^2 - 9$

11. $f(x) = (-x - 4)^2 + 6$

12. $f(x) = 3(-x - 7)^2 - 6$

13. $f(x) = -2(-x + 6)^2 - 8$

14. $f(x) = -(x - 5)^2 + 5$

15. $f(x) = -2(-x - 6)^2 + 6$

16. $f(x) = -3(x + 6)^2 - 3$

17. $f(x) = (x + 4)^2 - 10$

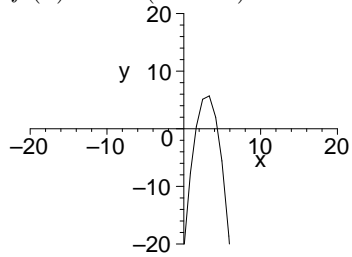
18. $f(x) = -(x - 10)^2 - 6$

19. $f(x) = -3(x + 5)^2 - 8$

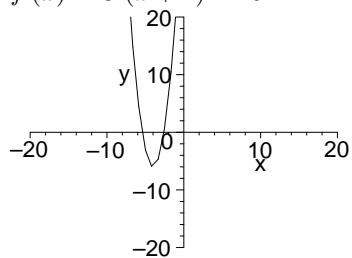
20. $f(x) = -3(-x - 10)^2 - 5$

Solutions

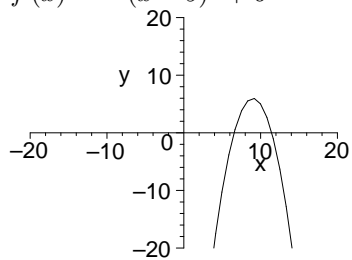
1. $f(x) = -3(-x + 3)^2 + 6$



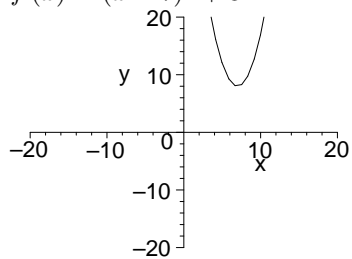
2. $f(x) = 3(x + 4)^2 - 6$



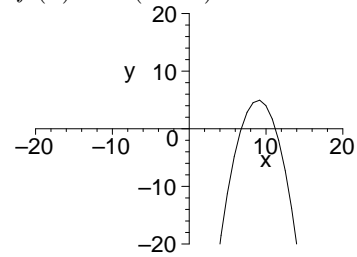
3. $f(x) = -(x - 9)^2 + 6$



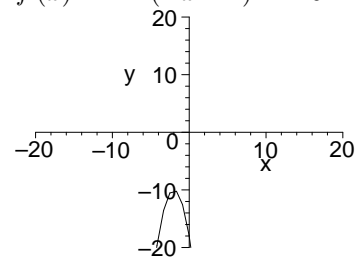
4. $f(x) = (x - 7)^2 + 8$



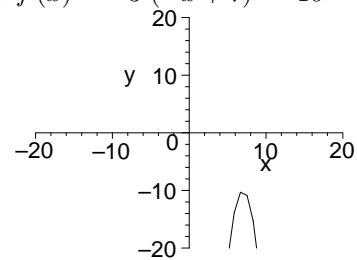
5. $f(x) = -(x - 9)^2 + 5$



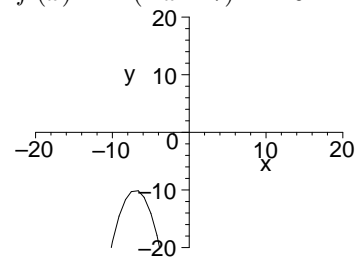
6. $f(x) = -2(-x - 2)^2 - 10$



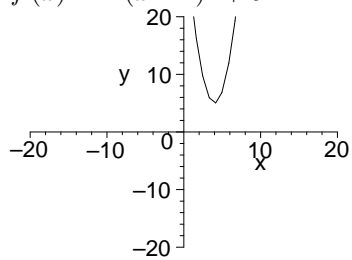
7. $f(x) = -3(-x + 7)^2 - 10$



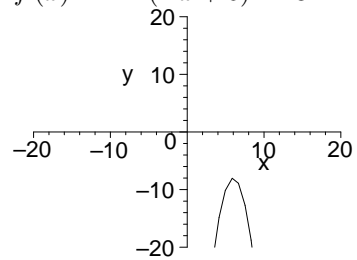
8. $f(x) = -(-x - 7)^2 - 10$



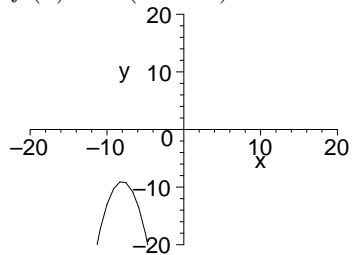
9. $f(x) = 2(x - 4)^2 + 5$



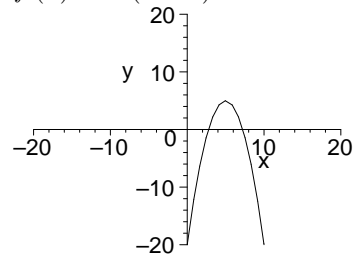
13. $f(x) = -2(-x + 6)^2 - 8$



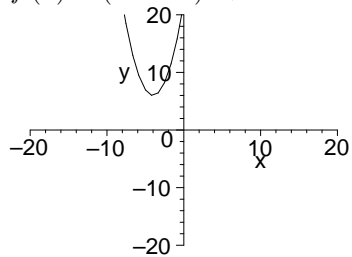
10. $f(x) = -(-x - 8)^2 - 9$



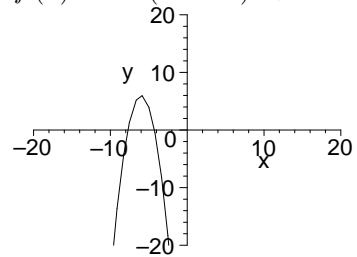
14. $f(x) = -(x - 5)^2 + 5$



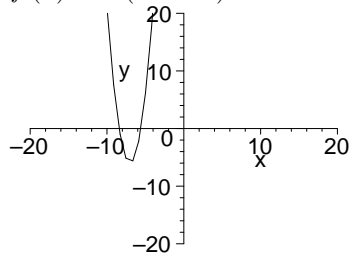
11. $f(x) = (-x - 4)^2 + 6$



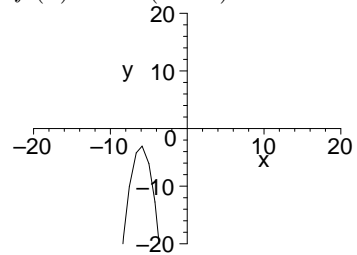
15. $f(x) = -2(-x - 6)^2 + 6$



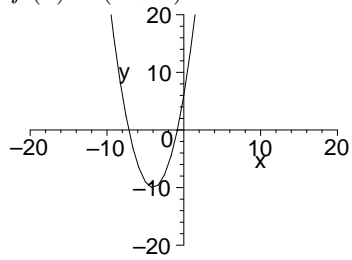
12. $f(x) = 3(-x - 7)^2 - 6$



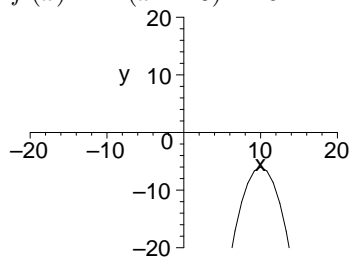
16. $f(x) = -3(x + 6)^2 - 3$



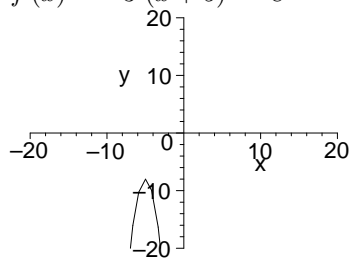
17. $f(x) = (x + 4)^2 - 10$



18. $f(x) = -(x - 10)^2 - 6$



19. $f(x) = -3(x + 5)^2 - 8$



20. $f(x) = -3(-x - 10)^2 - 5$

