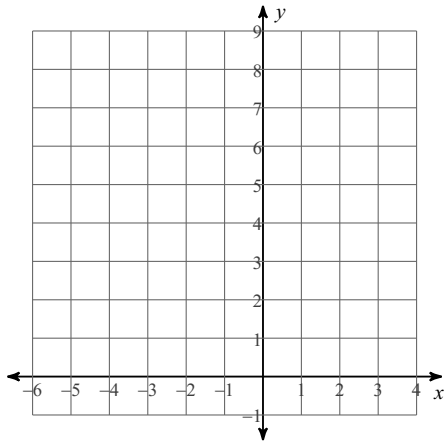


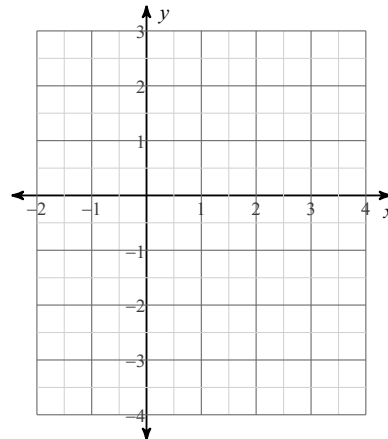
Graphing & Solving Quadratic Functions

Sketch the graph of each function.

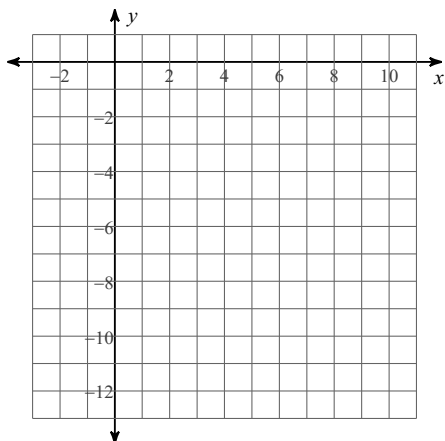
1) $f(x) = 2x^2$



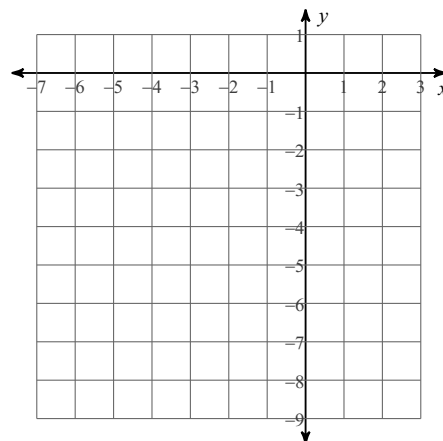
2) $f(x) = -\frac{1}{3}x^2$



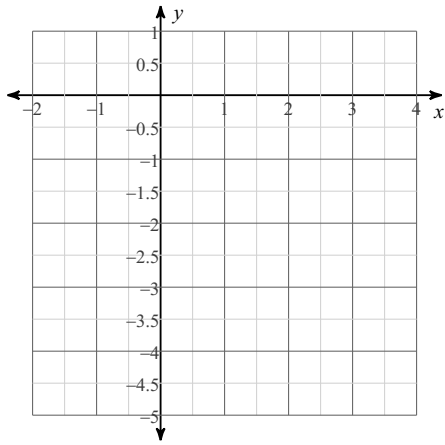
3) $f(x) = -3x^2$



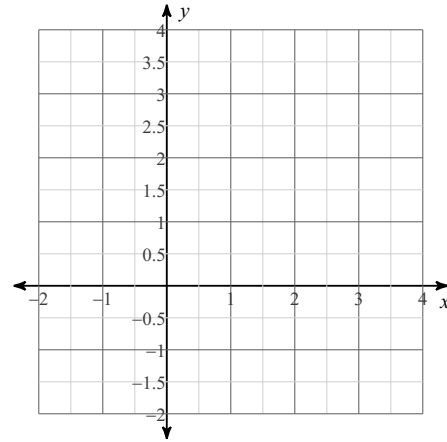
4) $f(x) = -2x^2$



5) $f(x) = -x^2$



6) $f(x) = \frac{1}{2}x^2$



Solve each equation by taking square roots.

7) $9x^2 = 666$

8) $25a^2 = 36$

9) $-2m^2 = -22$

10) $8n^2 = 544$

11) $9n^2 = 747$

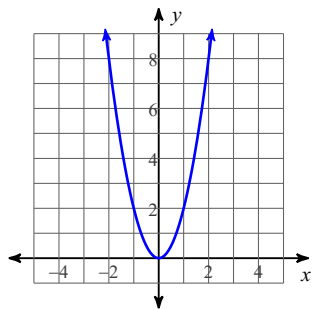
12) $-4m^2 = -400$

13) $6b^2 = 252$

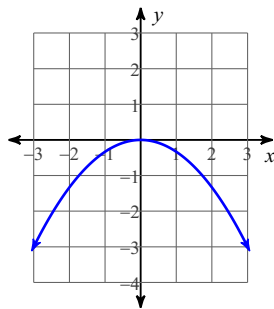
14) $-6k^2 = -102$

Answers to Graphing & Solving Quadratic Functions (ID: 1)

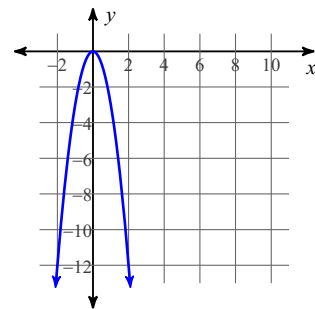
1)



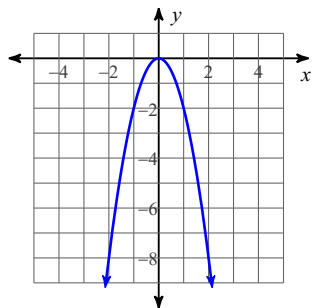
2)



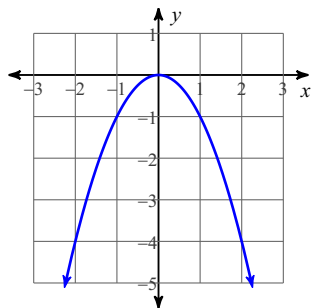
3)



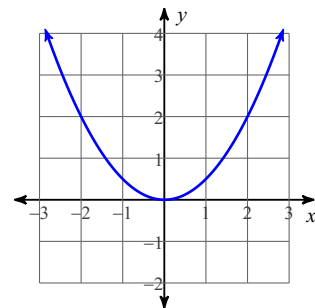
4)



5)



6)



7) $\{8.602, -8.602\}$

8) $\{1.2, -1.2\}$

9) $\{3.317, -3.317\}$

10) $\{8.246, -8.246\}$

11) $\{9.11, -9.11\}$

12) $\{10, -10\}$

13) $\{6.481, -6.481\}$

14) $\{4.123, -4.123\}$