

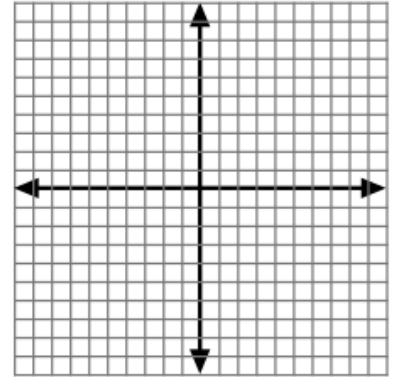
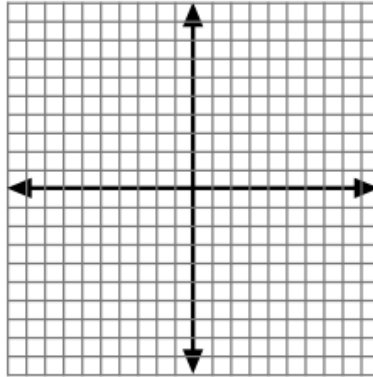
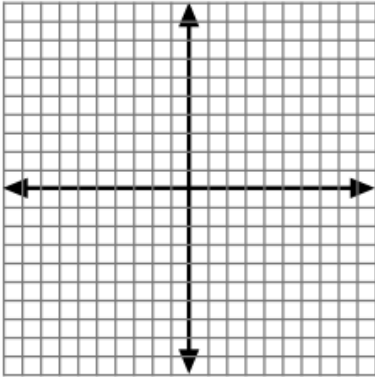
I can find the x-intercepts of quadratic functions.

Graph the following linear functions.

1. $y = x + 4$

2. $y = 2x - 6$

3. $y = \frac{1}{2}x + 4$

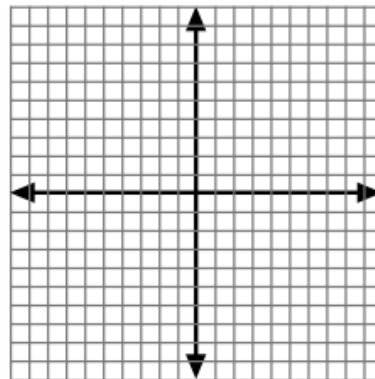
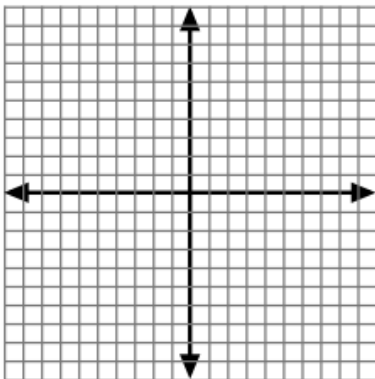


For each function, where does the x-intercept occur? Is there a way to find the x-intercepts without graphing?

Consider a quadratic function. Sketch the graph and identify the x-intercepts.

1. $y = x^2 - 2x - 8$

2. $y = x^2 + 2x - 3$



Is there a strategy we can use to find the x-intercepts without graphing?

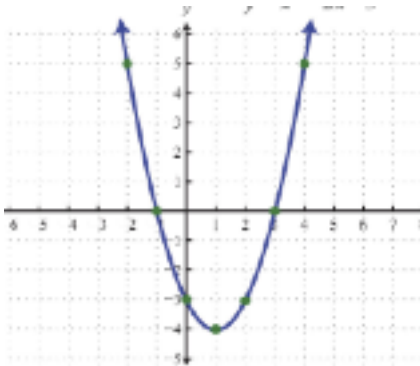
I can find the x-intercepts of quadratic functions.

- **x-intercepts** are also called _____, or _____.

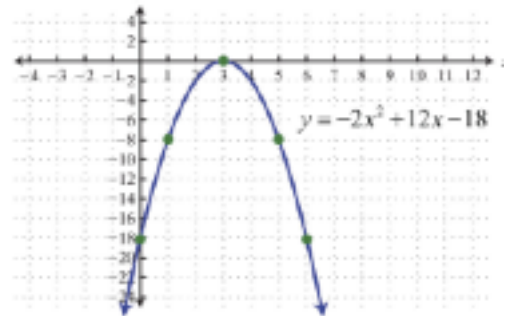
Zero Product Property

Find the zeros of each function.

1.



2.



3. $f(x) = (x - 2)(x - 7)$

4. $g(x) = (3x + 4)(x - 5)$

5. $j(x) = x^2 + 5x - 24$

6. $h(x) = x^2 + 13x + 40$