

**13.** 
$$y = 2x^2 - 17x + 30$$
 Positive  
**14.**  $y = -7x^2 + 35x - 28$  Positive  
**15.**  $y = -x^2 - 6x - 8$  Negative  
**16.**  $y = 2x^2 - 4x - 16$  Negative

- **17.** A rock is thrown upward from the edge of a bridge and onto a road that is 10 feet below the bridge. The function  $h(x) = -x^2 + 3x + 10$  gives the height, h, in feet, the rock travels in x seconds from the time it was thrown. When will the rock hit the road?
- **18.** Write an equation of a parabola with *x*-intercepts at  $(\frac{1}{4}, 0)$  and (-7, 0) which passes through the point (0, 7).