

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).