

1. Sketch the graph. Be sure to include key features.

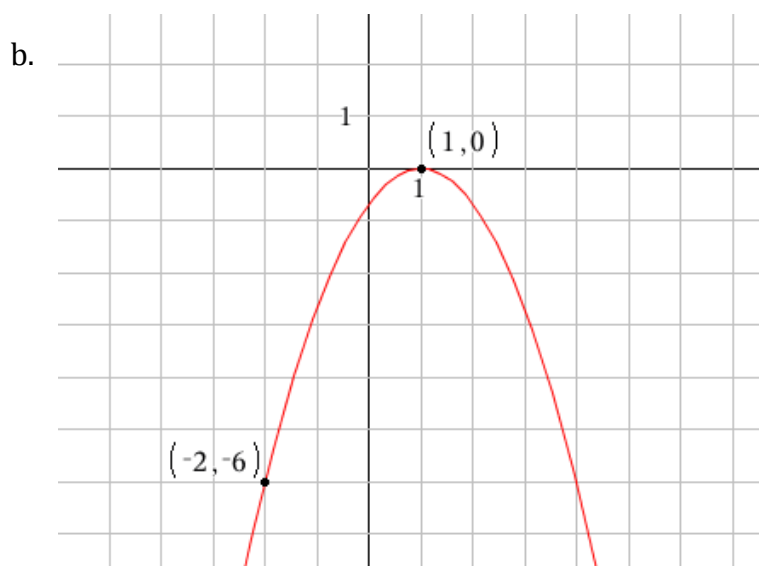
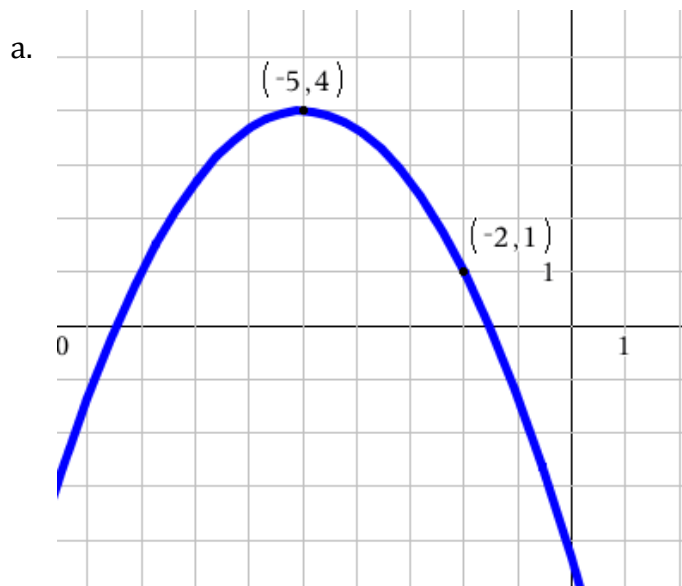
a. $f(x) = 3x^2 - 21x + 36$

b. $f(x) = -3\left(x - \frac{1}{2}\right)^2 + \frac{27}{4}$

c. $f(x) = \frac{1}{2}(x-1)^2 - 4$

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

2. Write the equation of each parabola.



c. x – intercepts at $(-2, 0)$ and $(5, 0)$, and a y-intercept of $(0, -40)$.