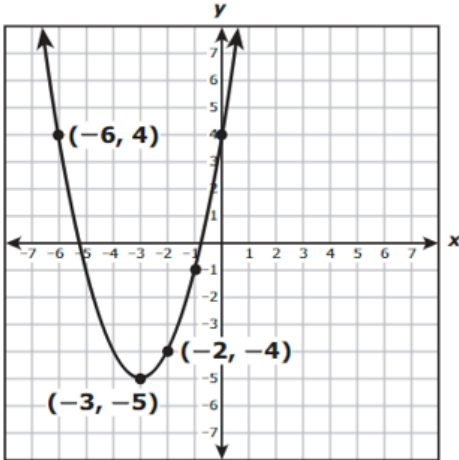


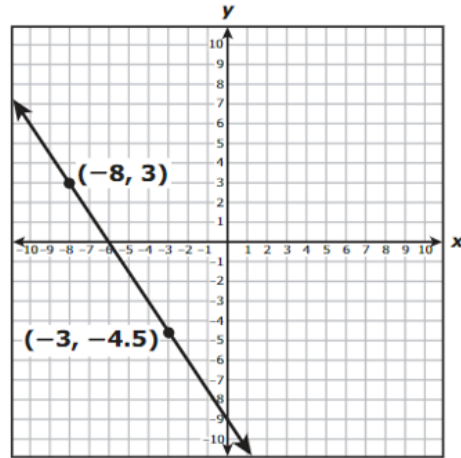
## Clue 1

1. The graph of quadratic function  $f$  is shown on the grid.



What is the  $y$ -intercept of the graph of  $f$ ?

5. The graph of linear function  $g$  is shown on the grid.



What is the zero of  $g$ ?

2. The expression  $(x^3)(x^{-17})$  is equivalent to  $x^n$ . What is the value of  $n$ ?

3. The value of  $y$  is directly proportional to the value of  $x$ . If  $y = 35$  when  $x = 140$ , what is the value of  $y$  when  $x = 70$ ?

4. What is the positive solution to the equation  $0 = \frac{1}{3}x^2 - 3$ ?