

7-4 Intercepts

Name: _____

Time> Start: _____ Finish: _____ Total Time = _____

In 1-5, find the x-intercepts and the y-intercepts of the given equations.

1. $f(x) = x^2 + 8x - 9$ x-intercept = _____ y-intercept = _____

2. $f(x) = 3x - 9$ x-intercept = _____ y-intercept = _____

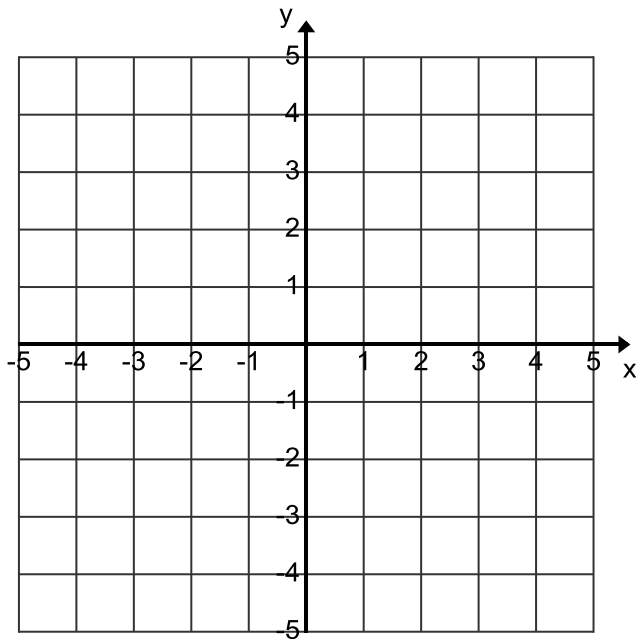
3. $f(x) = x^2 + 6x + 5$ x-intercept = _____ y-intercept = _____

4. $f(x) = 4x^2 - 7x - 2$ x-intercept = _____ y-intercept = _____

5. $f(x) = x^3 + 2x^2 - x - 2$ x-intercept = _____ y-intercept = _____

6. On the graph below, graph the equation $f(x) = |x - 2| - 1$
Determine the x-intercept and y-intercept.

x-intercept = _____ y-intercept = _____



SAT Questions

- _____ 13. If n is a positive integer, which of the following must be even?
A. $n + 2$ B. $2n$ C. $3n$ D. n^2 E. n^3
- _____ 14. If the product of five integers is negative, then, at most, how many of the five integers could be negative?
A. One B. Two C. Three D. Four E. Five
- _____ 15. If x and y are positive integers and $3^{2x} \cdot 3^{2y} = 81$, what is the value of $x + y$?
A. $\frac{3}{2}$ B. 2 C. 4 D. $\frac{81}{2}$ E. 81