## 6-4 Intercepts and Roots

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

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

2. 
$$f(x) = 3x - 9$$

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

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

6. What are the roots of 
$$x^2 + x - 20$$
?

7. What are the roots of 
$$x^2 + 4x - 5$$
?

8. What are the roots of 
$$x^3 - 4x$$
?

## In 9-12, write the polynomial of least degree for each set of roots given.