

Name: _____

Practice Assignment

Date: _____ Block: _____

Solve the quadratic equation to find its zeros.

1. $x^2 + 3x - 4 = 0$

2. $2x^2 - 7x - 4 = 0$

3. $x^2 - 64 = 0$

4. $6x^2 + 16x - 6 = 0$

5. $(x - 4)(3x + 2) = 0$

6. $x^2 - 7x = 8$

7. $(x + 2)(x - 6) = 0$

8. $x^2 + 9x = 0$

9. $x^2 - 2x = 15$

10. $3x^2 - x - 8 = -6$

11. $4x^2 = -12x$

12. $3x^2 - 21x + 16 = -2$

Calculate the zeros of the following functions:

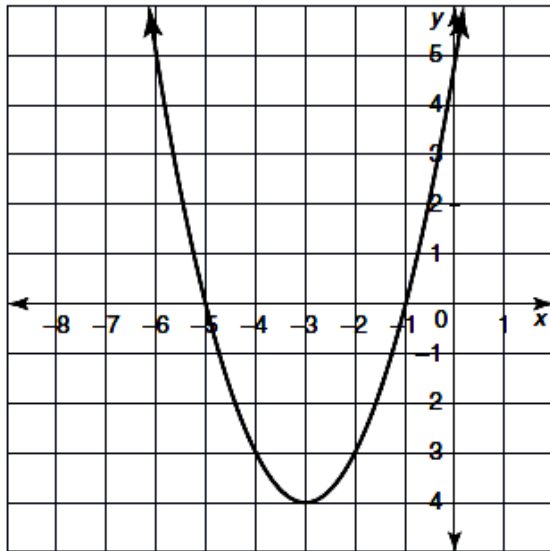
13. $f(x) = (x + 7)(x - 4)$

14. $f(x) = (x - 5)(x - 5)$

15. $f(x) = 3x(x + 4)$

Write an equation to represent the graphs below:

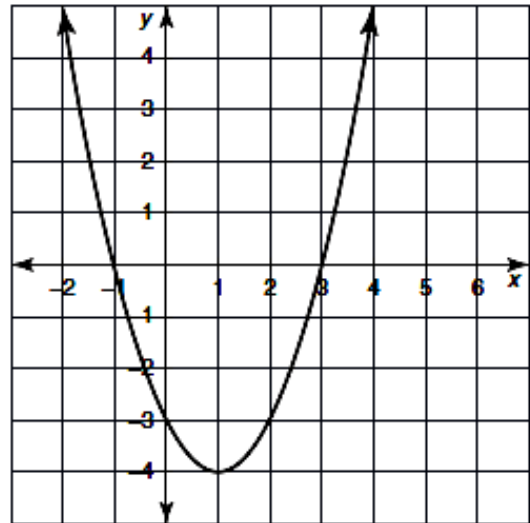
16.



Zeros: _____

$y =$ _____

17.



Zeros: _____

$y =$ _____

Write a function in both factored and standard form for the given zeros:

18. Zeros: $x = 4$ and -5 ; opens down

Intercept Form: _____

Standard Form: _____

19. Zeros: $x = 0$ and 2 ; opens up

Intercept Form: _____

Standard Form: _____

20. What are the factors and zeros of $2x^2 + 17x + 30 = 0$?