

Factoring to Solve a Quadratic

Date _____ Period _____

Find the zeros of each quadratic function from Factored Form.

1) $y = (x - 4)(x - 3)$

2) $y = (x - 7)(x - 4)$

3) $y = (x - 6)(2x - 7)$

4) $y = (x + 3)^2$

5) $y = (x - 3)(x - 7)$

6) $y = (x + 6)(8x - 1)$

Find the zeros of each quadratic function by factoring.

7) $y = x^2 + 8x + 15$

8) $y = x^2 - 16$

9) $y = x^2 + 2x - 8$

10) $y = x^2 - 3x - 4$

11) $y = x^2 + 6x + 5$

12) $y = 2x^2 - 4x$

13) $y = 3x^2 + 3x - 6$

14) $y = x^2 - 8x + 16$

15) $y = x^2 - 10x + 25$

16) $y = x^2 - 9$

Find the x-intercepts from Factored Form.

17) $y = (x + 6)(x + 3)$

18) $y = x(x - 3)$

19) $y = (x - 1)(x + 8)$

20) $y = x(x + 1)$

21) $y = (7x - 3)(x + 3)$

22) $y = (x - 3)(3x - 5)$

Find the x-intercepts by factoring.

23) $y = x^2 - 14x + 48$

24) $y = x^2 - 5x + 4$

25) $y = x^2 - 14x + 49$

26) $y = x^2 + 14x + 48$

27) $y = x^2 - 3x - 18$

28) $y = x^2 + 2x$

29) $y = x^2 + 8x$

30) $y = x^2 - 36$

31) $y = x^2 - x - 12$

32) $y = x^2 + 6x - 16$