

Factoring When the Leading Coefficient is 1

Date _____ Period _____

Solve each equation by factoring.

1) $b^2 - 6b + 5 = 0$

$b = 5 \text{ or } b = 1$

3) $x^2 + 5x + 4 = 0$

$x = -1 \text{ or } x = -4$

5) $b^2 - 2b - 15 = 0$

$b = -3 \text{ or } b = 5$

7) $x^2 - 5x + 6 = 0$

$x = 3 \text{ or } x = 2$

9) $p^2 + 3p + 2 = 0$

$p = -1 \text{ or } p = -2$

11) $x^2 + 7x + 12 = 0$

$x = -3 \text{ or } x = -4$

13) $k^2 + 8k + 15 = 0$

$k = -3 \text{ or } k = -5$

15) $x^2 - x = 0$

$x = 0 \text{ or } x = 1$

17) $a^2 + a - 2 = 0$

$a = -2 \text{ or } a = 1$

19) $x^2 - 2x - 8 = 0$

$x = 4 \text{ or } x = -2$

21) $x^2 - x = 2$

$x = 2 \text{ or } x = -1$

23) $x^2 - 2x + 2 = 5$

$x = -1 \text{ or } x = 3$

25) $m^2 + 2m - 5 = -5$

$v = -2 \text{ or } v = 0$

2) $n^2 + n = 0$

$n = -1 \text{ or } n = 0$

4) $x^2 - 3x - 4 = 0$

$x = 4 \text{ or } x = -1$

6) $n^2 + 3n = 0$

$n = -3 \text{ or } n = 0$

8) $p^2 + 6p + 8 = 0$

$p = -2 \text{ or } p = -4$

10) $a^2 - 3a - 4 = 0$

$a = -1 \text{ or } a = 4$

12) $a^2 - a - 2 = 0$

$x = 2 \text{ or } x = -1$

14) $r^2 + 9r + 20 = 0$

$r = -4 \text{ or } r = -5$

16) $v^2 - 8v + 15 = 0$

$v = 5 \text{ or } v = 3$

18) $a^2 + 6a + 9 = 0$

$a = -3$

20) $k^2 - 9k + 20 = 0$

$k = 4 \text{ or } k = 5$

22) $x^2 - x - 10 = -4$

$x = -2 \text{ or } x = 3$

24) $v^2 - 3v - 9 = -5$

$v = 4 \text{ or } v = -1$