

## Factoring Polynomials 1 - KEY

- 1)  $x^2 + 6x + 8 = (x + 4)(x + 2)$
- 2)  $x^2 - 7x + 10 = (x - 2)(x - 5)$
- 3)  $x^2 + 4x - 5 = (x + 5)(x - 1)$
- 4)  $x^2 + 8x + 15 = (x + 3)(x + 5)$
- 5)  $x^2 + 13x + 12 = (x + 1)(x + 12)$
- 6)  $x^2 + 8x + 12 = (x + 2)(x + 6)$
- 7)  $x^2 + 7x + 12 = (x + 3)(x + 4)$
- 8)  $x^2 + 4x - 12 = (x + 6)(x - 2)$
- 9)  $x^2 + x - 12 = (x + 4)(x - 3)$
- 10)  $x^2 - 4x - 12 = (x - 6)(x + 2)$
- 11)  $x^2 + 3x + 1$  does not factor
- 12)  $x^2 + 7x + 6 = (x + 1)(x + 6)$
- 13)  $x^2 - 3x - 4 = (x - 4)(x + 1)$
- 14)  $x^2 - 3x - 10 = (x - 5)(x + 2)$
- 15)  $x^2 + 3x + 10$  does not factor
- 16)  $x^2 - 8x - 9 = (x - 9)(x + 1)$
- 17)  $x^2 + 6x + 9 = (x + 3)^2$
- 18)  $x^2 + 8x - 16$  does not factor
- 19)  $x^2 + 5x + 6 = (x + 2)(x + 3)$
- 20)  $x^2 - 13x + 22 = (x - 2)(x - 11)$
- 21)  $x^2 - 4x - 5 = (x - 5)(x + 1)$
- 22)  $x^2 - 10x + 21 = (x - 3)(x - 7)$
- 23)  $x^2 - 11x - 12 = (x - 12)(x + 1)$
- 24)  $x^2 - 8x + 12 = (x - 2)(x - 6)$
- 25)  $x^2 - 13x + 12 = (x - 1)(x - 12)$
- 26)  $x^2 - x - 12 = (x - 4)(x + 3)$
- 27)  $x^2 - 7x + 12 = (x - 3)(x - 4)$
- 28)  $x^2 + 11x - 12 = (x + 12)(x - 1)$
- 29)  $x^2 - 10x + 9 = (x - 1)(x - 9)$
- 30)  $x^2 + 12x + 27 = (x + 3)(x + 9)$
- 31)  $x^2 - x - 6 = (x - 3)(x + 2)$
- 32)  $x^2 - 3x + 10$  does not factor
- 33)  $x^2 + 3x - 10 = (x + 5)(x - 2)$
- 34)  $x^2 + 2x + 1 = (x + 1)^2$
- 35)  $x^2 - 8x + 16 = (x - 4)^2$
- 36)  $x^2 - 14x + 48 = (x - 6)(x - 8)$