

1. Distribute to expand into a sum.

$$(x + 1)(x - 1) = x^2 - \cancel{1x} + \cancel{1x} - 1 = x^2 - 1$$

$$(x + 2)(x - 2) = x^2 - \cancel{2x} + \cancel{2x} - 4 = x^2 - 4$$

$$(x + 3)(x - 3) = x^2 - \cancel{3x} + \cancel{3x} - 9 = x^2 - 9$$

$$(x + 4)(x - 4) = x^2 - \cancel{4x} + \cancel{4x} - 16 = x^2 - 16$$

$$(x + 5)(x - 5) = x^2 - \cancel{5x} + \cancel{5x} - 25 = x^2 - 25$$

$$(x + 6)(x - 6) = x^2 - 36$$

$$(x + 7)(x - 7) = x^2 - 49$$

$$(x + 8)(x - 8) = x^2 - 64$$

$$(x + 10)(x - 10) = x^2 - 100$$