The method: Difference of squares

$a^2 - b^2 = (a + b)(a - b)$.

$$16x^2 - 25 = (4x)^2 - 5^2 = (4x + 5)(4x - 5) \quad a^2 - b^2 = (a + b)(a - b)$$

Problems 1 and 2 worked out · Version 0A

$$9x^2 - 1 = (3x)^2 - 1^2 = (3x + 1)(3x - 1) \quad a^2 - b^2 = (a + b)(a - b)$$

$$9x^2 - 25 = (3x)^2 - 5^2 = (3x + 5)(3x - 5) \quad a^2 - b^2 = (a + b)(a - b)$$

Difference of squares · Version 0A

1) $(3x + 1)(3x - 1)$ 2) $(3x + 5)(3x - 5)$
3) $(x + 7)(x - 7)$ 4) $(4x + 7)(4x - 7)$
5) $(x + 6)(x - 6)$ 6) $(5x + 12)(5x - 12)$
7) $(x + 9)(x - 9)$ 8) $(2x + 5)(2x - 5)$
9) $(x + 5)(x - 5)$ 10) $(x + 1)(x - 1)$
11) $(4x + 11)(4x - 11)$ 12) $(3x + 8)(3x - 8)$
13) $(5x + 4)(5x - 4)$ 14) $(4x + 3)(4x - 3)$
15) $(3x + 7)(3x - 7)$ 16) $(5x + 11)(5x - 11)$
17) $(3x + 10)(3x - 10)$ 18) $(2x + 7)(2x - 7)$
19) $(4x + 9)(4x - 9)$ 20) $(3x + 11)(3x - 11)$
21) $(3x + 2)(3x - 2)$