

Name _____ Date _____

Factor each expression

$$9x^2 - 49 =$$

$$25x^2 - 64 =$$

$$81x^2 - 25 =$$

$$25x^2 - 36 =$$

$$4x^2 - 81 =$$

$$9x^2 - 25 =$$

$$100x^2 - 49 =$$

$$x^2 - 49 =$$

$$36x^2 - 49 =$$

$$4x^2 - 9 =$$

$$x^2 - 81 =$$

$$49x^2 - 16 =$$

Answer Key

Factor each expression

$$9x^2 - 49 = (3x + 7)(3x - 7)$$

$$25x^2 - 64 = (5x + 8)(5x - 8)$$

$$81x^2 - 25 = (9x + 5)(9x - 5)$$

$$25x^2 - 36 = (5x + 6)(5x - 6)$$

$$4x^2 - 81 = (2x + 9)(2x - 9)$$

$$9x^2 - 25 = (3x + 5)(3x - 5)$$

$$100x^2 - 49 = (10x + 7)(10x - 7)$$

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

$$36x^2 - 49 = (6x + 7)(6x - 7)$$

$$4x^2 - 9 = (2x + 3)(2x - 3)$$

$$x^2 - 81 = (x + 9)(x - 9)$$

$$49x^2 - 16 = (7x + 4)(7x - 4)$$

Name _____ Date _____

Factor each expression

$$25x^2 - 9 =$$

$$x^2 - 64 =$$

$$64x^2 - 9 =$$

$$4x^2 - 1 =$$

$$25x^2 - 1 =$$

$$x^2 - 36 =$$

$$x^2 - 1 =$$

$$36x^2 - 49 =$$

$$49x^2 - 100 =$$

$$25x^2 - 81 =$$

$$25x^2 - 16 =$$

$$36x^2 - 25 =$$

Answer Key

Factor each expression

$$25x^2 - 9 = (5x + 3)(5x - 3)$$

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

$$64x^2 - 9 = (8x + 3)(8x - 3)$$

$$4x^2 - 1 = (2x + 1)(2x - 1)$$

$$25x^2 - 1 = (5x + 1)(5x - 1)$$

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

$$x^2 - 1 = (x + 1)(x - 1)$$

$$36x^2 - 49 = (6x + 7)(6x - 7)$$

$$49x^2 - 100 = (7x + 10)(7x - 10)$$

$$25x^2 - 81 = (5x + 9)(5x - 9)$$

$$25x^2 - 16 = (5x + 4)(5x - 4)$$

$$36x^2 - 25 = (6x + 5)(6x - 5)$$