

Determine which Special Factoring formula to use.

$$p^2 + \underline{4}p + 4$$

$$a^2 + 2ab + b^2$$

Determine which Special Factoring formula to use.

$$x^2 - 1$$

$$a^2 - b^2$$

Determine which Special Factoring formula to use.

$$\underline{9x^2} - 25$$

$$a^2 - b^2$$

$$a = 3x \quad b = 5$$

Determine which Special Factoring formula to use.

$$\underline{216x^3} + \underline{125}$$

$$a^3 + b^3$$

$$a = 6x \quad b = 5$$

Determine which Special Factoring formula to use.

$$4x^2 - 36$$

$$a^2 - b^2$$

$$a = 2x \quad b = 6$$

Determine which Special Factoring formula to use.

$$p^2 - 2p + 1$$

$$a^2 - 2ab + b^2$$

$$a = p \quad b = 1$$

Determine which Special Factoring formula to use.

$$1 + 27x^3$$
$$a = 1 \quad b = 3x$$

Determine which Special Factoring formula to use.

$$x^3 - 64$$
$$a^3 - b^3$$
$$a = x \quad b = 4$$

Determine which Special Factoring formula to use.

$$25x^2 \oplus 20x + 4$$

$$a^2 + 2ab + b^2$$

$$a = 5x \quad b = 2$$

Determine which Special Factoring formula to use.

$$25n^2 - 40n + 16$$

$$a^2 - 2ab + b^2$$

$$a = 5n \quad b = 4$$

Factor Completely

$$25x^2 + 20x + 4$$

$$a^2 + 2ab + b^2 = (a+b)(a+b)$$

$$(5x+2)(5x+2) = (5x+2)^2$$

$$10x + 10x$$

$$20x$$

$$\sqrt{a^2} = \sqrt{25x^2}$$

$$b^2 = 4$$

$$a = 5x$$

$$b = 2$$

Factor Completely

$$x^3 - 64$$

$$a^3 - b^3$$

$$a = x \quad b = 4$$

$$(x-4)(x^2 + 4x + 16)$$

Factor Completely

$$4x^2 - 36$$

$$4(x^2 - 9)$$

$$4(x-3)(x+3)$$

$$4(x+3)(x-3)$$

$$(2x+6)(2x-6)$$

$$a =$$
$$b =$$

Factor Completely

$$15m^2 + 3m$$

$$3m(5m + 1)$$

$$\text{GCF: } 3m$$

Factor Completely

$$x^2 - 12x + 35$$

$$(x - 5)(x - 7)$$

Factor Completely

$$216x^3 + 125$$

Factor Completely

$$25n^2 - 40n + 16$$

Factor Completely

$$81x^3 - 192$$

Factor Completely

$$30x^2 - 186x + 36$$

Factor Completely

$$2x^3 + 54$$