

Name \_\_\_\_\_ Date \_\_\_\_\_

Instructions: Factor the following polynomials.

$$1) \quad x^2 + 17x + 70 = \\ (x + 7) \cdot (x + 10)$$

$$2) \quad x^2 - 9x - 10 =$$

$$3) \quad x^2 + 12x + 32 =$$

$$4) \quad x^2 - 16 =$$

$$5) \quad x^2 + 12x + 20 =$$

$$6) \quad x^2 - 9x =$$

$$7) \quad x^2 + 13x + 30 =$$

$$8) \quad x^2 - 11x + 30 =$$

$$9) \quad x^2 + 6x =$$

$$10) \quad x^2 - 6x =$$

$$11) \quad x^2 - 5x - 36 =$$

$$12) \quad x^2 - 2x - 48 =$$

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$$13) x^2 + 12x + 36 =$$

$$14) x^2 - 16 =$$

## Answer Key

$$1) \quad x^2 + 17x + 70 = \\ (x + 7) \cdot (x + 10)$$

$$2) \quad x^2 - 9x - 10 = \\ (x + 1) \cdot (x - 10)$$

$$3) \quad x^2 + 12x + 32 = \\ (x + 4) \cdot (x + 8)$$

$$4) \quad x^2 - 16 = \\ (x - 4) \cdot (x + 4)$$

$$5) \quad x^2 + 12x + 20 = \\ (x + 2) \cdot (x + 10)$$

$$6) \quad x^2 - 9x = \\ (x - 9) \cdot (x)$$

$$7) \quad x^2 + 13x + 30 = \\ (x + 3) \cdot (x + 10)$$

$$8) \quad x^2 - 11x + 30 = \\ (x - 6) \cdot (x - 5)$$

$$9) \quad x^2 + 6x = \\ (x + 6) \cdot (x)$$

$$10) \quad x^2 - 6x = \\ (x - 6) \cdot (x)$$

$$11) \quad x^2 - 5x - 36 = \\ (x + 4) \cdot (x - 9)$$

$$12) \quad x^2 - 2x - 48 = \\ (x + 6) \cdot (x - 8)$$

$$13) \quad x^2 + 12x + 36 = \\ (x + 6) \cdot (x + 6)$$

$$14) \quad x^2 - 16 = \\ (x + 4) \cdot (x - 4)$$

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