

Algebra I

11.6 Warm-Up #2

Trinomial Factoring

NAME: _____

DATE: _____ HOUR: _____

Factor using the sum and product rule.

1. $x^2 + 5x + 4$ Find two integers that multiply to be ____ and add to be ____.

Those integers are ____ and ____.

$$x^2 + 5x + 4 = (x \quad)(x \quad)$$

2. $x^2 + x - 6$ Find two integers that multiply to be ____ and add to be ____.

Those integers are ____ and ____.

$$x^2 + x - 6 = (x \quad)(x \quad)$$

3. $a^2 + 3a - 18$ Find two integers that multiply to be ____ and add to be ____.

Those integers are ____ and ____.

$$a^2 + 3a - 18 = (a \quad)(a \quad)$$

4. $x^2 - 12x + 35$ Find two integers that multiply to be ____ and add to be ____.

Those integers are ____ and ____.

$$x^2 - 12x + 35 = (x \quad)(x \quad)$$

5. $x^2 - x - 2$ Find two integers that multiply to be ____ and add to be ____.

Those integers are ____ and ____.

$$x^2 - x - 2 = (x \quad)(x \quad)$$

6. $x^2 - 3x - 4 = (x \quad)(x \quad)$

7. $x^2 + 11x + 10$ Find two integers that multiply to be ____ and add to be ____.

Those integers are ____ and ____.

$$x^2 + 11x + 10 = (x \quad)(x \quad)$$

8. $a^2 - 25a + 100$ Find two integers that multiply to be ____ and add to be ____.

Those integers are ____ and ____.

$$a^2 - 25a + 100 = (a \quad)(a \quad)$$

9. $x^2 - 12x + 32$ Find two integers that multiply to be ____ and add to be ____.

Those integers are ____ and ____.

$$x^2 - 12x + 32 = (x \quad)(x \quad)$$

10. $x^2 + 21x + 54$ Find two integers that multiply to be ____ and add to be ____.

Those integers are ____ and ____.

$$x^2 + 21x + 54 = (x \quad)(x \quad)$$

11. $x^2 + 10x - 24$ Find two integers that multiply to be ____ and add to be ____.

Those integers are ____ and ____.

$$x^2 + 10x - 24 = (x \quad)(x \quad)$$

12. $a^2 + 7a + 10$ Find two integers that multiply to be ____ and add to be ____.

Those integers are ____ and ____.

$$a^2 + 7a + 10 = (a \quad)(a \quad)$$

13. $x^2 - 5x + 6 = (x \quad)(x \quad)$