

Factoring trinomial when $a > 1$

$$6x^2 - x - 2$$

$$6 * -2 = -12$$

$$x^2 - x - 12$$

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

$$\frac{(x - 4)(x + 3)}{6} \quad \frac{6}{6}$$

$$(3x - 2)(2x + 1)$$

1. Multiply 1st term times last term.

2. Drop the 1st number and rewrite the last term with the product of step 1.

3. ****FACTOR** using big X**

4. Divide the numbers by your original X² number.

5. **REDUCE** numbers and bring bottom number up.

Student Name: _____

Score: _____

Factorize the Trinomials

Problems

Work Space

$$2x^2 - 3x - 5$$

Answer:

$$5x^2 - 14x - 3$$

Answer:

$$3x^2 - 7x + 2$$

Answer:

$$4x^2 + 4x - 3$$

Answer:

$$15x^2 - 14x - 8$$

Answer:

Factoring Trinomials ($a > 1$)

Factor each completely.

1) $3p^2 - 2p - 5$

2) $2n^2 + 3n - 9$

3) $3n^2 - 8n + 4$

4) $5n^2 + 19n + 12$

5) $2v^2 + 11v + 5$

6) $2n^2 + 5n + 2$

7) $7a^2 + 53a + 28$

8) $9k^2 + 66k + 21$

$$9) 15n^2 - 27n - 6$$

$$10) 5x^2 - 18x + 9$$

$$11) 4n^2 - 15n - 25$$

$$12) 4x^2 - 35x + 49$$

$$13) 4n^2 - 17n + 4$$

$$14) 6x^2 + 7x - 49$$

$$15) 6x^2 + 37x + 6$$

$$16) -6a^2 - 25a - 25$$

$$17) 6n^2 + 5n - 6$$

$$18) 16b^2 + 60b - 100$$