

Name _____ Period _____ Date _____

Solutions

Practice Factoring Assessment #3 Questions

Factor Trinomials AC Method and Solve by Factoring

Factor each trinomial, if possible. If the trinomial cannot be factored using integers, write prime.

1. $8p^2 - 6p - 35$

$$(2p-5)(4p+7)$$

2. $16a^2 - 24a + 5$

$$(4a-5)(4a-1)$$

3. $2x^2 + 5x + 2$

$$(2x+1)(x+2)$$

4. $2t^2 - 11t + 15$

$$(2t-5)(t-3)$$

5. $9p^2 + 6p - 8$

$$(3p-2)(3p+4)$$

6. $24c^2 + 62c + 18$

$$2(4c+9)(3c+1)$$

Solutions

Solve each equation by factoring.

7. $2x^2 + 7x + 3 = 0$

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

$$x = -\frac{1}{2} \quad x = -3$$

8. $6h^2 + 8h + 2 = 0$

$$2(3h+1)(h+1)$$

$$x = -\frac{1}{3} \quad x = -1$$

9. $9y^2 + 18y - 12 = 6y$

$$(3y-2)(y+2)$$

$$x = \frac{2}{3} \quad x = -2$$

10. $6a^2 = 25a - 14$

$$(2a-7)(3a-2)$$

$$x = \frac{7}{2} \quad x = \frac{2}{3}$$