



Factoring Method

Name: _____

Date: _____

Score: _____

Direction: Solve each quadratic equation using factoring method. Show all your work in the space provided.

1) $x^2 - 4x - 21 = 0$

() () = 0

2) $x^2 - 10x + 9 = 0$

() () = 0

3) $7x^2 + 20x - 3 = 0$

() () = 0

4) $-8x^2 - 8x + 6 = 0$

() () = 0

5) $4x^2 - 20x + 25 = 0$

() () = 0

6) $21x^2 - 13x + 2 = 0$

() () = 0



Factoring Method

Version 1

Name: _____

Date: _____

Score: _____

Direction: Solve each quadratic method using factoring method. Show all your work in the space provided.

1) $x^2 - 4x - 21 = 0$

$$(x+3)(x-7) = 0$$

$$x_1 = -3, x_2 = 7$$

2) $x^2 - 10x + 9 = 0$

$$(x-1)(x-9) = 0$$

$$x_1 = 1, x_2 = 9$$

3) $7x^2 + 20x - 3 = 0$

$$(7x-1)(x+3) = 0$$

$$x_1 = \frac{1}{7}, x_2 = -3$$

4) $-8x^2 - 8x + 6 = 0$

$$(-4x-6)(2x-1) = 0$$

$$x_1 = \frac{3}{2}, x_2 = \frac{1}{2}$$

5) $4x^2 - 20x + 25 = 0$

$$(2x-5)(2x-5) = 0$$

$$x = \frac{5}{2} \text{ multiplicity } 2$$

6) $21x^2 - 13x + 2 = 0$

$$(7x-2)(3x-1) = 0$$

$$x_1 = \frac{2}{7}, x_2 = \frac{1}{3}$$