



# Factoring Method

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_

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

1)  $x^2 + x - 56 = 0$

(      ) (      ) = 0

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

(      ) (      ) = 0

3)  $5x^2 + 28x - 12 = 0$

(      ) (      ) = 0

4)  $18x^2 - 3x - 1 = 0$

(      ) (      ) = 0

5)  $16x^2 - 8x + 1 = 0$

(      ) (      ) = 0

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

(      ) (      ) = 0



# Factoring Method

Version 2

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_

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

1)  $x^2 + x - 56 = 0$

$$(x+8)(x-7) = 0$$

$$x_1 = -8, x_2 = 7$$

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

$$(x+4)(x+2) = 0$$

$$x_1 = -4, x_2 = -2$$

3)  $5x^2 + 28x - 12 = 0$

$$(5x-2)(x+6) = 0$$

$$x_1 = \frac{2}{5}, x_2 = -6$$

4)  $18x^2 - 3x - 1 = 0$

$$(6x+1)(3x-1) = 0$$

$$x_1 = -\frac{1}{6}, x_2 = \frac{1}{3}$$

5)  $16x^2 - 8x + 1 = 0$

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

$$x = \frac{1}{4} \text{ multiplicity } 2$$

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

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

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