



Square Root Method

Version 2

Name: _____

Date: _____

Score: _____

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

1) $-5x^2 - 2 = x^2 - 20$

2) $-(-9x^2 - 2x - 3) = 2(3x^2 + x + 9)$

3) $3(-3x^2 + 6x - 2) + 2(3x^2 - 9x + 2) = -20$

4) $-3(2x^2 - 4)^2 + 1 = -11$



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1) $-5x^2 - 2 = x^2 - 20$

$$x_1 = \sqrt{3}, x_2 = -\sqrt{3}$$

2) $-(-9x^2 - 2x - 3) = 2(3x^2 + x + 9)$

$$x_1 = \sqrt{5}, x_2 = -\sqrt{5}$$

3) $3(-3x^2 + 6x - 2) + 2(3x^2 - 9x + 2) = -20$

$$x_1 = \sqrt{6}, x_2 = -\sqrt{6}$$

4) $-3(2x^2 - 4)^2 + 1 = -11$

$$x_1 = 1, x_2 = -1, x_3 = \sqrt{3}, x_4 = -\sqrt{3}$$