



Quadratic Equations

Name _____

Score _____

RQ:06

Express the given equations in quadratic form as $ax^2 + bx + c = 0$.

1) $(3x - 4)(5x + 6) = 0$

2) $x(1 - 2x) = 2(5x^2 + 4)$

3) $\frac{5}{3x} = x - 2$

4) $\frac{6}{2x - 3} - \frac{1}{x + 7} = 2$

5) $2(3 - 2x^2) = 4 + x(3x + 1)$

6) $\frac{1}{2x^2}(4 - x) = 1$

7) $\frac{3}{2x} + 4x = 0$

8) $5 = \frac{1}{3x^2}(4 - x)$



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Answer key

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Express the given equations in quadratic form as $ax^2 + bx + c = 0$.

1) $(3x - 4)(5x + 6) = 0$

$15x^2 - 2x - 24 = 0$

3) $\frac{5}{3x} = x - 2$

$3x^2 - 6x - 5 = 0$

5) $2(3 - 2x^2) = 4 + x(3x + 1)$

$7x^2 + x - 2 = 0$

7) $\frac{3}{2x} + 4x = 0$

$8x^2 + 3 = 0$

2) $x(1 - 2x) = 2(5x^2 + 4)$

$12x^2 - x + 8 = 0$

4) $\frac{6}{2x - 3} - \frac{1}{x + 7} = 2$

$x^2 - 2x - 33 = 0$

6) $\frac{1}{2x^2}(4 - x) = 1$

$2x^2 + x - 4 = 0$

8) $5 = \frac{1}{3x^2}(4 - x)$

$15x^2 + x - 4 = 0$