

EXTRA PRACTICE — Exercises

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Unit VIII – Quadratic Equations

Part B – Equations That Are Quadratic in Form

Lesson 3 – Integer Order, Less Than Zero

Solve each of the following equations by using a temporary substitution to “reduce” it to a quadratic equation in standard form.

1. $x^{-2} - 5x^{-1} - 36 = 0$

2. $3x^{-2} - x^{-1} - 14 = 0$

3. $2x^{-2} + x^{-1} - 1 = 0$

4. $m^{-2} + 9m^{-1} - 10 = 0$

5. $y^{-2} - y^{-1} - 2 = 0$

EXTRA PRACTICE — Answer Key

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Solve each of the following equations by using a temporary substitution to “reduce” it to a quadratic equation in standard form.

1. $S = \left\{ \frac{1}{9}, -\frac{1}{4} \right\}$

2. $S = \left\{ \frac{3}{7}, \frac{1}{2} \right\}$

3. $S = \{2, -1\}$

4. $S = \left\{ -\frac{1}{10}, 1 \right\}$

5. $S = \left\{ \frac{1}{2}, -1 \right\}$