EXTRA PRACTICE — Exercises

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Unit VIII – Quadratic Equations
Part B – Equations That Are Quadratic in Form
Lesson 2 – Lower Rational Order, Greater Than Zero

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

1. $x^{\frac{2}{3}} - 4x^{\frac{1}{3}} - 5 = 0$

2. $x^{\frac{2}{5}} + x^{\frac{1}{5}} - 6 = 0$

3. $5x - 13\sqrt{x} - 6 = 0$

4. $x^{\frac{2}{3}} + 2x^{\frac{1}{3}} - 8 = 0$

5. $3x + 10\sqrt{x} - 8 = 0$

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. $S = \{125, -1\}$

2. $S = \{-243, 32\}$

3. $S = \left\{\frac{9}{25}, 4\right\}$

4. $S = \{-64, 8\}$

5. $S = \left\{\frac{4}{9}\right\}$