5.4.15

a. Write the exponential expressions $x^{\frac{3}{5}}$ and $y^{-2.5}$ in radical form.



b. Write the radical expressions $\sqrt{a^3}$ and $(\sqrt[5]{b})^2$ in exponential form.

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Classwork

p. 388

$$7^{\frac{1}{2}}x^{\frac{3}{2}}$$

[1-25 odd 20 \(\frac{7}{7}x^{\frac{3}{2}}\)

31-37 odd

(\frac{7}{7}x^{\frac{3}{2}}\)

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Solving Square Root Equations

Solve
$$2 + \sqrt{3x - 2} = 6$$
.
 -2

$$(\sqrt{3x - 2}) = (4)^{2}$$

$$3x - 2 = 16$$

$$+/2 + 2$$

$$3x = 18$$

$$3 = 18$$

$$3 = 6$$

Solve
$$\sqrt{5x + 1} - 6 = 0$$
.
 $+ \frac{1}{5} + \frac{1}{5} = \frac{1}{5} = \frac{36}{5} = \frac{36$

Solving Radical Equations With Rational Exponents

Solve
$$(x-2)^{\frac{2}{3}} = 50$$
.
 $(x-2)^{\frac{2}{3}} + (25)^{\frac{2}{3}}$
 $(x-2)^{\frac{2}{3}} + (25)^{\frac{2}{3}}$