$$2^4 = 16 \qquad \sqrt[4]{16} = 2$$

$$3^3 = 27 \qquad \sqrt[3]{27} = 3$$

$$\sqrt{x^4} = x^2$$

$$\sqrt[3]{y^{15}} = y^5$$

$$\sqrt[5]{y^{20}} = y^4$$

$$\sqrt[4]{z^{24}} = z^6$$

$$y^0 \cdot y^0 \cdot y^0$$

$$y^0 \cdot y^0 \cdot y^0 \cdot y^0 \cdot y$$

$$\pm\sqrt{25x^4}$$

$$\sqrt{25}\ \sqrt{x^4}$$

$$\boxed{\pm 5x^2}$$

$$\sqrt[5]{32x^{15}y^{20}}$$

$$\sqrt[5]{32}\ \sqrt[5]{x^{15}}\ \sqrt[5]{y^{20}}$$

$$\boxed{2x^3y^4}$$

$$\sqrt[4]{(w+8)^{16}} = (w+8)^4$$

a. $\sqrt[8]{x^{\circled{8}}} = |x|$

b. $\sqrt[4]{81(a+1)^{12}}$

$\sqrt[4]{81} \qquad \sqrt[4]{(a+1)^{12}}$

$3\left|(a+1)^3\right|$

p. 405-406

13-47 odd, 51, 56-57, 73, 76-77

Quiz Friday
Sections 1-4

40) $\sqrt{4.27} \cong 2.066$