

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

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

$$\sqrt[5]{y^{30}} = y^6$$

$$\sqrt[4]{x^{16}} = x^4$$

$$x^0 \cdot x^0 = x^4$$

$$y^0 \cdot y^0 \cdot y^0 = y^{15}$$

$$y^0 \cdot y^0 \cdot y^0 \cdot y^0 \cdot y^0 = y^{30}$$

$$\pm \sqrt{25x^8}$$

$$\pm \sqrt{25} \sqrt{x^8}$$

$$\pm 5x^4$$

$$\sqrt[4]{-9}$$

not a  
real  
number

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

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

$$2y^3z^4$$

$$\sqrt{(w+4)^{12}}$$

$$(w+4)^6$$

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

$$\sqrt[4]{(y+2)^{12}}$$

$$|(y+2)^3|$$

$$\sqrt{100x^{10}}$$

$$\sqrt{100} \sqrt{x^{10}}$$

$$10|x^5|$$

$$\sqrt[7]{46.815} \approx 4.647$$

p. 405-406

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

Quiz  
Friday

Section 7.1-7.4