

## 11.2 HW

Tuesday, April 08, 2014  
2:50 PM

p. 723) # 3-6, 11, 12, 19, 20, 28, 29

- ③  $2\sqrt{5}$       ④  $4\sqrt{3}$       ⑤  $4\sqrt{6}$       ⑥  $6\sqrt{2}$       ⑪  $5\sqrt{6}$
- ⑫ 30      ⑱  $\frac{2}{7}$       ⑳  $\frac{\sqrt{7}}{9}$

Solutions

③  $\sqrt{20} = \sqrt{5 \cdot 4} = 2\sqrt{5}$

④  $\sqrt{48} = \sqrt{3 \cdot 16} = 4\sqrt{3}$

⑤  $\sqrt{96} = \sqrt{6 \cdot 16} = 4\sqrt{6}$

⑥  $\sqrt{72} = \sqrt{2 \cdot 36} = 6\sqrt{2}$

⑪  $\sqrt{5} \cdot \sqrt{30} = \sqrt{150}$   
 $= \sqrt{6 \cdot 25}$

$$= \sqrt{6 \cdot 25}$$
$$= \boxed{5\sqrt{6}}$$

$$\textcircled{12} \sqrt{50} \cdot \sqrt{18} = \sqrt{900}$$
$$= \sqrt{100 \cdot 9}$$
$$= 10 \cdot 3$$
$$= \boxed{30}$$

OR

$$\sqrt{25 \cdot 2} \cdot \sqrt{9 \cdot 2}$$
$$= 5\sqrt{2} \cdot 3\sqrt{2} = 15\sqrt{4} = 15 \cdot 2 = \boxed{30}$$

$$\textcircled{19} \sqrt{\frac{4}{49}} = \frac{\sqrt{4}}{\sqrt{49}} = \boxed{\frac{2}{7}}$$

$$\textcircled{20} \sqrt{\frac{7}{81}} = \frac{\sqrt{7}}{\sqrt{81}} = \boxed{\frac{\sqrt{7}}{9}}$$