

Corrective Assignment ~~12.2~~ 11.2**Simplify by adding and subtracting.**

1)  $-3\sqrt{5} + 2\sqrt{5}$

2)  $-2\sqrt{2} + 3\sqrt{2}$

3)  $-3\sqrt{3} - 3\sqrt{3} - 3\sqrt{3}$

4)  $3\sqrt{6} - \sqrt{2} + 3\sqrt{6}$

5)  $-\sqrt{20} + 2\sqrt{5}$

6)  $-3\sqrt{12} - 2\sqrt{12}$

**Simplify by multiplying.**

7)  $\sqrt{12} \cdot \sqrt{15}$

8)  $\sqrt{8} \cdot \sqrt{10}$

$$9) 3\sqrt{20} \cdot -4\sqrt{15}$$

$$10) 4\sqrt{20} \cdot -\sqrt{5}$$

$$11) \sqrt{3}(\sqrt{2} + \sqrt{6})$$

$$12) -5\sqrt{6}(5\sqrt{2} + 2)$$

**Simplify by multiplying. (Hint: DOUBLE DISTRIBUTE!)**

$$13) (-\sqrt{3} + 3\sqrt{5})(5\sqrt{3} - \sqrt{5})$$

$$14) (-\sqrt{5} - 3)(-4\sqrt{5} - 5)$$

**Simplify.**

$$15) \sqrt{\frac{3}{5}}$$

$$16) \frac{\sqrt{15}}{\sqrt{10}}$$

$$17) \frac{\sqrt{6}}{\sqrt{25}}$$

$$18) \frac{5\sqrt{10}}{2\sqrt{4}}$$

Answers to Corrective Assignment 12.2

- |                          |                            |                            |                                |
|--------------------------|----------------------------|----------------------------|--------------------------------|
| 1) $-\sqrt{5}$           | 2) $\sqrt{2}$              | 3) $-9\sqrt{3}$            | 4) $6\sqrt{6} - \sqrt{2}$      |
| 5) 0                     | 6) $-10\sqrt{3}$           | 7) $6\sqrt{5}$             | 8) $4\sqrt{5}$                 |
| 9) $-120\sqrt{3}$        | 10) $-40$                  | 11) $\sqrt{6} + 3\sqrt{2}$ | 12) $-50\sqrt{3} - 10\sqrt{6}$ |
| 13) $-30 + 16\sqrt{15}$  | 14) $35 + 17\sqrt{5}$      | 15) $\frac{\sqrt{15}}{5}$  | 16) $\frac{\sqrt{6}}{2}$       |
| 17) $\frac{\sqrt{6}}{5}$ | 18) $\frac{5\sqrt{10}}{4}$ |                            |                                |