**ACT REVIEW – Special Triangles**

30-60-90

1. $a=6\sqrt{3}$, $b=12$

2. $a=16$, $b=8\sqrt{3}$

3. $a=4$, $b=8$

4. $a=4$, $b=2$

5. $a=\frac{16}{\sqrt{3}}=\frac{16\sqrt{3}}{3}$, $b=\frac{8}{\sqrt{3}}=\frac{8\sqrt{3}}{3}$

6. $a=5\sqrt{7}$, $b=5\sqrt{21}$

7. $a=12$, $b=12\sqrt{3}$

8. $a=30$, $b=15\sqrt{3}$

9. $a=5\sqrt{6}$, $b=5\sqrt{18}=15\sqrt{2}$

45-45-90

1. $x=6$, $y=6\sqrt{2}$

2. $x=11\sqrt{2}$, $y=11$

3. $x=7$, $y=7$

4. $x=2$, $y=2$

5. $x=4\sqrt{3}$, $y=4\sqrt{6}$

6. $x=8\sqrt{10}$, $y=8\sqrt{5}$

7. $x=\sqrt{10}$, $y=\sqrt{10}$

8. $x=6\sqrt{2}$, $y=6\sqrt{2}$

9. $x=10\sqrt{3}$, $y=10\sqrt{3}$

Multi-Step Triangles

1. $14$

2. $10\sqrt{3}$

3. $\frac{9\sqrt{3}}{4}$

4. $\frac{2\sqrt{6}}{3}$

5. $x=4\sqrt{6}$