**ACT REVIEW – Right Triangle Trigonometry**

1. $\tan(43°)=\frac{x}{12}$, $x≈11.2$

2. $\sin(35°)=\frac{x}{20}$, $x≈11.5$

3. $\tan(37°)=\frac{2.1}{x}$, $x≈2.8$

4. $\cos(41°)=\frac{x}{11}$, $x≈8.3$

5. $\tan(x)=\frac{7}{11}$, $x≈32°$

6. $\cos(x)=\frac{.15}{.37}$, $x≈66°$

7. $\cos(x)=\frac{3}{3\sqrt{5}}$, $x≈63°$

8. $\sin(x)=\frac{5}{14}$, $x≈21°$

9. $θ≈74.1°$

10. $x≈0.5$

11. $x≈0.9$

12. $θ=30°$

13. $\tan(58°)=\frac{50}{x}$, $x≈31.2 yd$

14. $\tan(25°)=\frac{x}{250}$, $x≈116.6 ft$

18. $w=5$, $x≈4.7$

19. $\tan(w)=\frac{5}{3}, w=59°$

 $\tan(x)=\frac{5}{7}, x≈36°$

20. $\sin(30°)=\frac{w}{6}$, $w=3$

 $\cos(x)=\frac{3}{4}, x=41°$

21. $\sin(42°)=\frac{w}{102}$, $w=68$

 $\cos(42°)=\frac{a}{102}$, $a=76$ $x=152$

22. $\sin(10.4°)=\frac{195}{x}$, $x≈1080 ft$

23. $\tan(18°)=\frac{250}{x}$, $x≈769 ft$

24 $\tan(x)=\frac{282}{137}$, $x≈64°$

25. $\tan(x)=\frac{1}{12}$, $x≈4.8°$

26. $\tan(35°)=\frac{x}{30}$, $x≈21+5≈26 ft$