Determine which acute angle has the given trigonometric ratio.
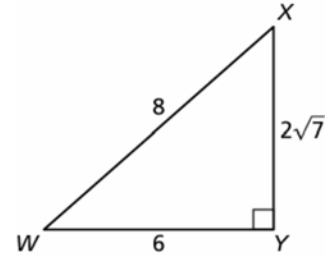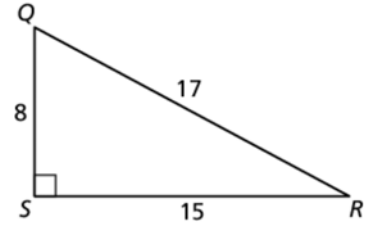
1. The sine of the angle is $\frac{8}{17}$.

4. The cosine of the angle is $\frac{3}{4}$.

2. The cosine of the angle is $\frac{15}{17}$.

5. The tangent of the angle is $\frac{15}{8}$.

3. The tangent of the angle is $\frac{3\sqrt{7}}{7}$.

Find the measure of $\angle B$ in trig and decimal form.

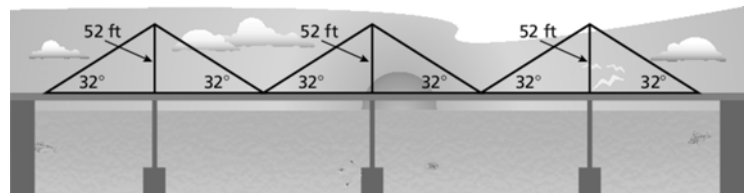6. $\sin B = 0.64$ 　　　　7. $\cos B = 0.12$ 　　　　8. $\tan B = 2.18$

9. $\tan B = 5.18$ 　　　　10. $\sin B = 0.41$ 　　　　11. $\cos B = 0.05$

12. Use the diagram to find the distance across the suspension bridge.

13. Use the diagram to find the acute angle formed by Washington Boulevard and Willow Way.

Solve the right triangle.

14.

15.

16.