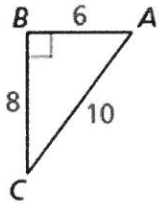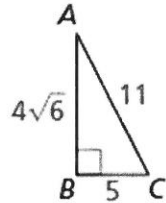9.7 Practice Problems

1. Determine which angle has the given trigonometric ratio.
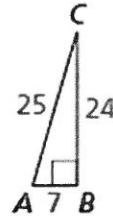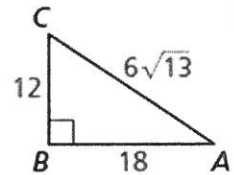
The cosine of the angle is $\frac{4}{5}$.

The sine of the angle is $\frac{5}{11}$.

The sine of the angle is 0.96.

The tangent of the angle is 1.5.

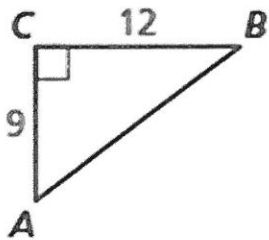2. Find the measure of angles A, B, C, D and E.

sin A = 0.5   cos B = 0.5   tan C = 0.4230   cos D = 0.6721   tan E = 1
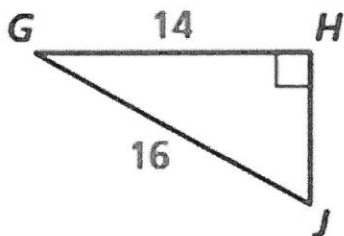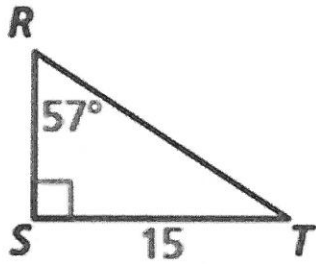
3. Solve the triangle. Find all missing sides and angles.

4. Solve the triangle. Find all missing sides and angles.
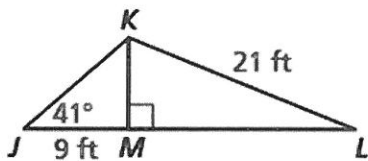
5. Solve the triangle. Find all missing sides and angles.

R

57°

S ⊾ 15 T

6. In order to unload clay, the body of a dump truck must be elevated to at least a 45 degree angle. The body of a dump truck that is 14 feet long had been raised 8 feet. Will the clay pour out? Explain your reasoning.

7. Solve the triangles.

△JKM and △LKM

K

21 ft

41°

J 9 ft M   L

8. Solve the triangles.

△TUS and △VTW

U 4 m 5 m V

64° S

9 m

T   W