

# HOMEWORK: Sine Ratio (Sides & Angles)

Date: \_\_\_\_\_

1. Use a calculator to find each value to four decimal places.

a)  $\sin 88^\circ$

b)  $\sin 45^\circ$

c)  $\sin 10^\circ$

d)  $\sin 114^\circ$

2. Use a calculator to find the measure of each angle A to the nearest degree. (Use  $\sin^{-1}$ )

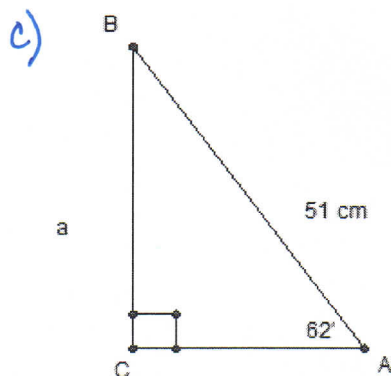
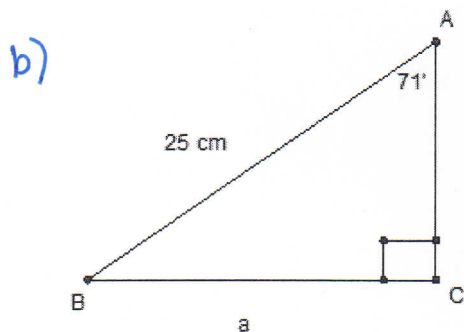
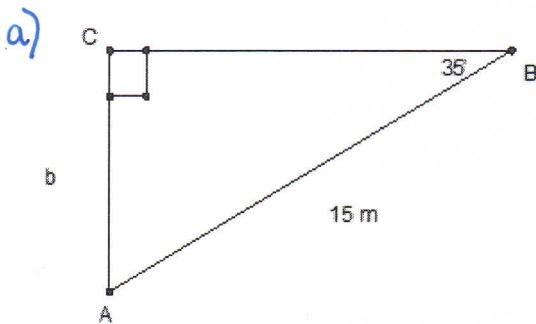
a)  $\sin A = 0.7777$

b)  $\sin A = 0.2861$

c)  $\sin A = .1234$

d)  $\sin A = .5678$

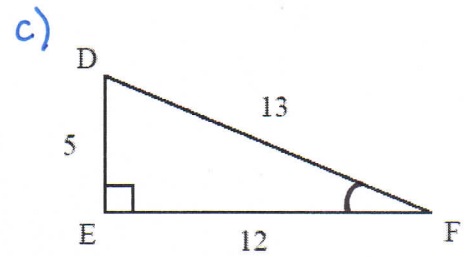
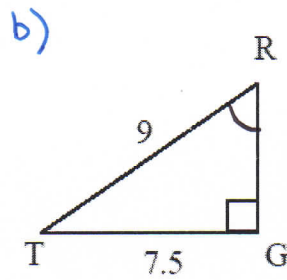
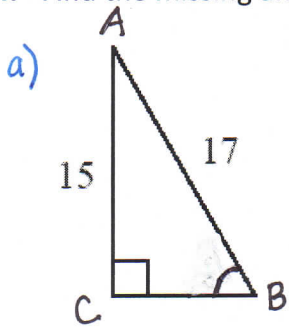
3. Find the missing side rounded to 1 decimal place.



# HOMEWORK: Sine Ratio (Sides & Angles)

Date: \_\_\_\_\_

4. Find the missing angle. Round your answer to the nearest degree.



5. A ladder that is 5m long is leaning up against the side of a barn. It reaches 4.2m up the side of the barn wall. Find the angle the ladder makes with the ground. Round to the nearest degree.

6. Ron is building a skateboard ramp for his granddaughter Alexis. Ron wants the ramp to rise at an angle of  $12^\circ$ . He also wants the ramp to be 0.5m high from the ground. How long will the ramp need to be?