TRIGONOMETRY 5

1.   Find the following: Round your answers to 4 decimal places.

   a. sin 16°

   b. tan 80.5°

   c. cos 0.3°

               _____

               _____

               _____

2.   Find $\angle A$ (in degrees) for each of the following. Round your answer to one decimal place.

   a. tan $\angle A$ = 1.093

   b. sin $\angle A$ = 0.5555
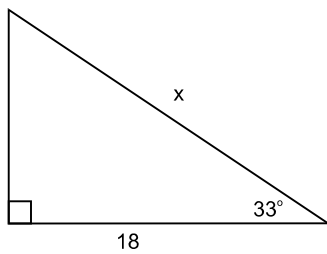
   c. cos $\angle A$ = 0.065

               _____

               _____

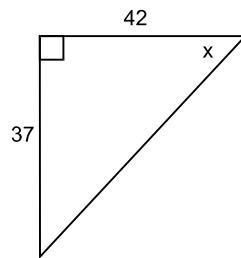   _____

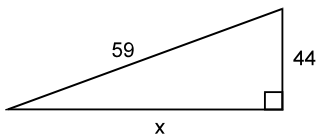3.   Find $\angle x$ or side x in each of the following. Round your answers to one decimal place.
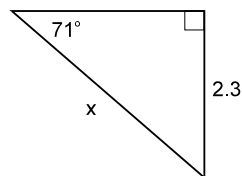
a.

b.

a.   _____

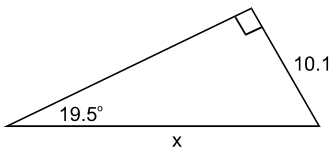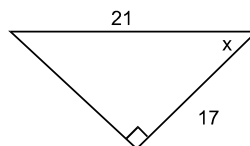b.   _____

c.

d.

c.   _____

d.   _____

e.

f.

e.   _____

f.   _____

4.   Solve △ABC. Round your answers to one decimal place.

$\overline{AB}$ = _____

$\overline{BC}$ = _____

$\angle B$ = _____
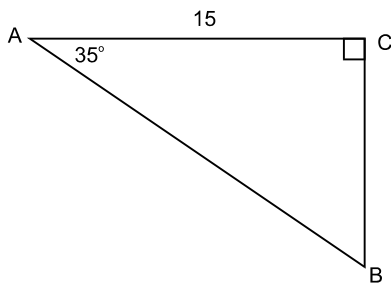
5.   A 6.5 m ladder makes an angle of 22° with a wall. How high up the wall does the ladder reach? Round your answers to one decimal place.

Height of the ladder = _____

6.   Bill is in an apartment building 58 m above the ground. In the distance he can see a tall tree. The angle between the building and his line of sight to the base of the tall tree is 85.5°. How far is the tree from the foot of the building?

Distance to the tree = _____

ANSWER KEY

1. a. 0.2756   b. 5.9758   c. 1.0000

2. a. 47.5°   b. 33.7°   c. 86.3°

3. a. 21.5   b. 41.4°   c. 39.3   d. 2.4   e. 30.3

    f. 36°

4. 18.3, 10.5, 55°

5. 6 m

6. 737

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