## TRIGONOMETRY 4

1. Find the following. Round answers to 4 decimal places.
a. $\cos 82^{\circ}$ $\qquad$
b. $\tan 5.6^{\circ}$ $\qquad$
c. $\sin 0.77^{\circ}$ $\qquad$
2. Find $\angle \mathrm{A}$ (in degrees) for each of the following. Round to one decimal place.
a. $\sin \angle A=0.9321$ $\qquad$
b. $\tan \angle A=2.563$ $\qquad$
c. $\cos \angle A=0.089$ $\qquad$
3. Find $\angle \mathrm{x}$ or side x in each of the following. Round answers to one decimal place.
a.
b.

a. $\qquad$
b. $\qquad$
c.

d.

c. $\qquad$
e.

95

f.

e. $\qquad$
f. $\qquad$
4. Solve $\triangle \mathrm{ABC}$. Round your answers to one decimal place.

$\overline{\mathrm{AC}}=$ $\qquad$
$\overline{\mathrm{AB}}=$ $\qquad$
$\angle A=$ $\qquad$
5. Vicki estimates the distance from a large rock to the base of a vertical cliff to be 43 m . Standing by the large rock, the angle between the ground and her line of sight to the top of the cliff is about $57^{\circ}$. Estimate the height of the cliff.

Height of the cliff = $\qquad$
6. What angle does a 7.5 m ladder make with a wall if the top of the ladder is 6 m above the ground?
$\qquad$

## ANSWER KEY

1. a. 0.1392
b. 0.0981
c. 0.0134
2. a. $68.8^{\circ}$
b. $68.7^{\circ}$
C. $84.9^{\circ}$
3. a. $54.9^{\circ}$
b. 28.6
c. 39.0
d. 9.0
e. 54.2
f. $54.3^{\circ}$
4. a. 21.1
b. 28.4
C. $42^{\circ}$
5. 66.2 m
6. $36.9^{\circ}$
