TRIGONOMETRY 4

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





4. Solve $\triangle ABC$. Round your answers to one decimal place.



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°. Estimate the height of the cliff.

Height of the cliff = _____

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?



Angle of the ladder = _____

ANSWER KEY

1. a	0.1392	b. 0.0981	c. 0.0134		
2. a	. 68.8°	b. 68.7°	c. 84.9°		
3. a.	54.9°	b. 28.6	c. 39.0	d. 9.0	e. 54.2
f.	54.3°				
4. a	21.1	b. 28.4	c. 42°		
5.66	5.2 m				

6. 36.9°

Source: Government of BC used with permission.

