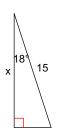
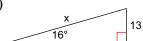
Trig Review (TR1)

Find the missing side. Round to the nearest tenth.

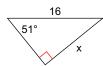
1)



2)



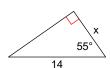
3)



4)



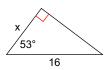
5)



6



7

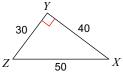


8)

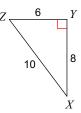


Find the ratio in fraction form, decimal and the degree.

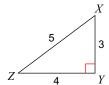
9) sin *X*



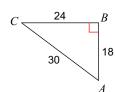
10) $\cos X$



11) $\cos Z$

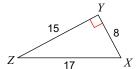


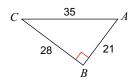
12) cos *C*



13) tan *X*

14) tan *A*





- 15) The height of a building is 250 feet. What is the angle of elevation from a point on the level ground 200 feet away from the building?
- 16) A 10 metre ladder is leaning against the side of a building. If the bottom of the ladder is 3 metres from the bottom of the building, find the angle of elevation the ladder makes with the building.
- 17) A kite string is 200 metres long. Find the height of the kite if the string makes an angle of 38° with the ground.
- 18) Cyndie is in a boat. The angle of elevation to the top of the cliff is 26°. If the cliff is 300 metres high, how far away from the base of the cliff is the boat?
- 19) A plane is flying at 6,000 metres. Erika sees the plane. If the angle of elevation from Erika's feet to the plane is 16°, how far is Erika from the plane?
- 20) The angle of elevation from the bottom of the lift to the top of Snow Bowl is 33°. If a skier rides 1,000 feet on this lift to the top, what is the vertical distance between the bottom of the lift and the top?
- 21) How far from the vertical wall of a building is the base of a 30 foot ladder which makes a 75° angle with the ground?

Answers to Trig Review (TR1)

1) 14.3

2) 47.2

3) 12.4

4) 10.1

5) 8.0

6) 9.0

7) 9.6

8) 9.1

9) — 5 15 10) $\frac{4}{5}$

11) $\frac{4}{5}$

12) $\frac{4}{5}$

13) $\frac{15}{8}$

14) $\frac{4}{3}$

- 15) The angle of elevation is approximately 51 degrees.
- 16) The angle that the ladder makes with the building is approximately 73 degrees.
- 17) The kite is flying at an approximate height of 123.1 metres.
- 18) The boat is approximately 615.1 metres from the base of the cliff.
- 19) Erika is approximately 21,770.7 metres from the plane.
- 20) The vertical distance between the bottom of the lift and the top of the lift is approximaely 544.6 feet.
- 21) The base of the ladder is approximately 7.8 feet from the base of the building.