TRIGONOMETRY REVIEW

1. Know all terms.
2. Use your calculator to solve the following values to 4 decimal places.
3. sin 16° b) cos 63°
4. Use your calculator to solve the following values to 2 decimal places.
5. sin *ϴ* = 0.9696 b) tan *ϴ* = 1.6557
6. Solve for the missing side:

5 cm

2 cm

x

1. Use the Pythagorean Theorem to prove whether or not the following is a right angle triangle.

13 in

5 in

12 in

1. Use **similar triangles** to solve for the missing side.

F

E

A

C

B

D

3.5 in

7.5 in

6 in

d

1. Solve the following triangles for the missing value:
2. c)

x

71°

6 ft

x

22°

115 cm

4.1 in

*ϴ*

5.3 in

1. Kelly is flying a kite on a string that is 20 m long. The string makes an angle of 48° with the ground. Calculate the height of the kite.
2. The longest side of a rectangle is 15 cm (length). The diagonal of the rectangle makes an angle of 23° with the side. Calculate the length of the diagonal.
3. A hiker is walking along the ground towards a cliff that is 1800 m high. The angle of depression from the top of the cliff to the hiker is 30°. How far is the hiker from the base of the cliff?
4. Hailey is standing 78 m from the base of a flag pole. She uses a clinometer to measure an angle of elevation at 23°. Her eye height is 1.15 m. Calculate the height of the flag pole.