Name:_____   Block:_____

1. Find each of the following to 3 decimal places.

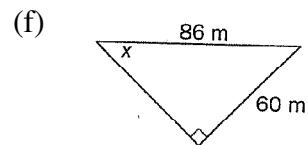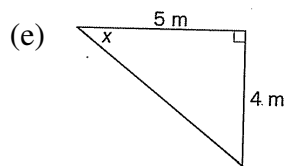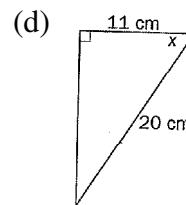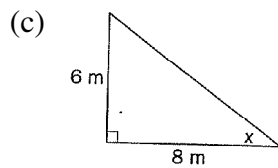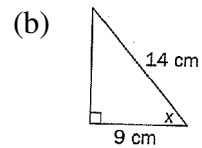   (a) sin 27°   (b) cos 56°   (c) tan 78°
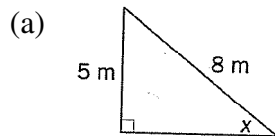
2. Find the measure of each angle, to the nearest degree.
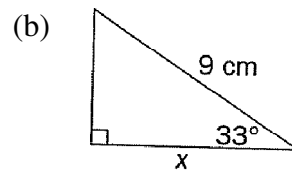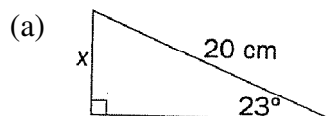
    (a) sin D = 0.602   (b) cos Z = 0.309   (c) tan X = 0.445

3. Find the measure of angle X, to the nearest degree.

    (a)   (b)

    (c)   (d)

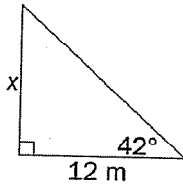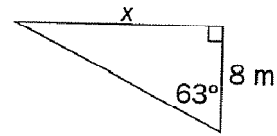   (e)   (f)

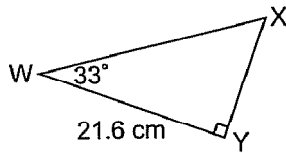4. Calculate the length of side x to the nearest tenth.
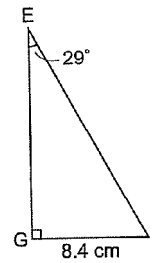
    (a)   (b)

(c)

42°

12 m

(d)

x

63° 8 m

(e) Find side WX

X

W 33°

21.6 cm

Y

(f) Find side EF

E

29°

G

8.4 cm

F

5. In ΔDEF, ∠E= 90°, DF = 11.5cm and DE = 2.7cm. Find the measure of ∠D, to the nearest tenth of a degree. Draw the triangle.

6. A goal post casts a shadow that is 3.6m long. The angle of elevation of the sun is 39°. What is the height of the goal post, to the nearest tenth of a metre? Sketch a diagram.

7. In ΔFGH, ∠H= 90°, FH = 6cm and ∠F = 31°, find the area of the triangle to the nearest tenth of a square cm. Sketch a diagram.