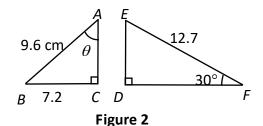
TB(2B) Ch. 11 Introduction to Trigonometry Conventional Questions

1. [16-17 S.2 Final Exam #8]

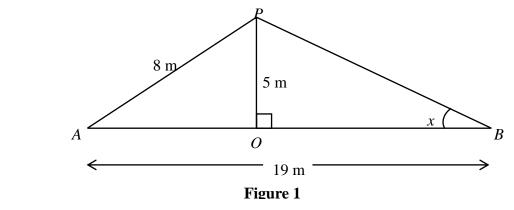
Figure 2 shows two triangles *ABC* and *DEF*. Find θ and *DF*.

(3 marks)



2. [17-18 S.2 Final Exam #6]

In **Figure 1**, O is a point on AB such that $OP \perp AB$. It is given that AP = 8 m, OP = 5 m, $\angle PBO = x$ and AB = 19 m.



(a) Find OA. (2 marks)

(b) Find x. (2 marks)

3. [17-18 S.2 Final Exam #12]

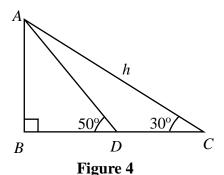
In **Figure 4**, $\triangle ABC$ is a right-angled triangle with $\angle B = 90^{\circ}$, $\angle C = 30^{\circ}$ and AC = h. D is a point on BC such that $\angle ADB = 50^{\circ}$.

(a) Find AB in terms of h.

(2 marks)

(b) If DC = 8, find h.

(2 marks)



4. [18-19 S.2 Final Exam #7]

In **Figure 2**, $\triangle BTS$ is a right-angled triangle where $\angle S = 90^{\circ}$, $\angle T = 40^{\circ}$ and BS = 12 cm.

(a) Find TS.

(2 marks)

(b) Find the area of $\triangle BTS$.

(1 mark)

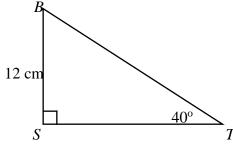


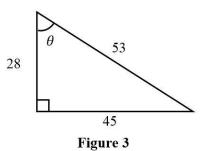
Figure 2

5. [20-21 Final Exam #3]

Refer to Figure 3, find the values of

- (a) $\sin \theta$, (1 mark)
- (b) $\cos \theta$ and (1 mark)
- (c) $\tan \theta$. (1 mark)

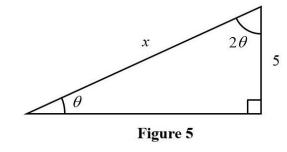
Give your answers in fraction.



6. [20-21 Final Exam #15]

Refer to **Figure 5**, find x.

(3 marks)



~ End ~