



Lesson 1 Assignment

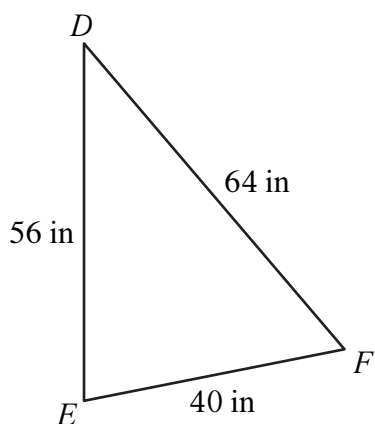
The Sine Law

Work slowly and carefully. If you are having difficulty, go back and review the appropriate *Lesson*.

For full marks, show all calculations, steps, and/or explain your answers.

Total: 17 marks.

- ③ 1. List the matching pairs of sides and opposite angles in $\triangle DEF$.



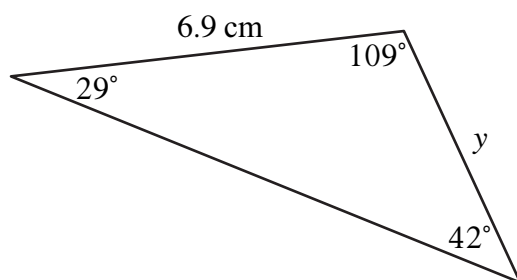
- a. $\angle D$ is opposite _____ in.
- b. $\angle E$ is opposite _____ in.
- c. $\angle F$ is opposite _____ in.

- ① 2. Evaluate $\sin 46^\circ$. Express the answer to four decimal places.

- ① 3. Find $\angle B$ if $\sin B = 0.2419$. Express the answer to the nearest degree.

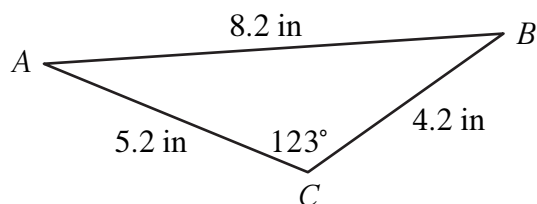
(2)

4. Calculate side y using the sine law to 1 decimal place. Show all your work.



(2)

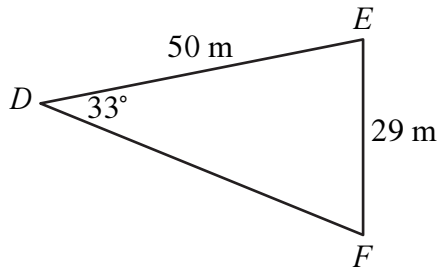
5. Calculate $\angle A$ in $\triangle ABC$ to the nearest degree using the sine law. Show all work.



6. Find the following missing angles in $\triangle DEF$. Show all work.

2

- a. Find $\angle F$ in $\triangle DEF$ to the nearest degree.



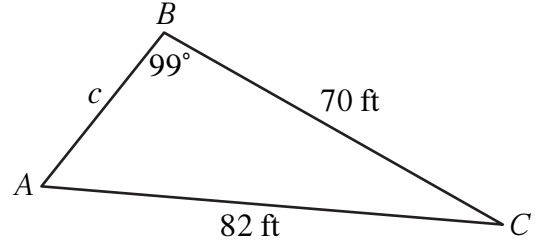
1

- b. Find $\angle E$ in $\triangle DEF$.

7. Find the following missing side and angles in $\triangle ABC$.

2

a. Find $\angle A$ in $\triangle ABC$ to the nearest degree.



1

b. Find $\angle C$ in $\triangle ABC$.

2

c. Find side c in $\triangle ABC$ to 1 decimal place.