

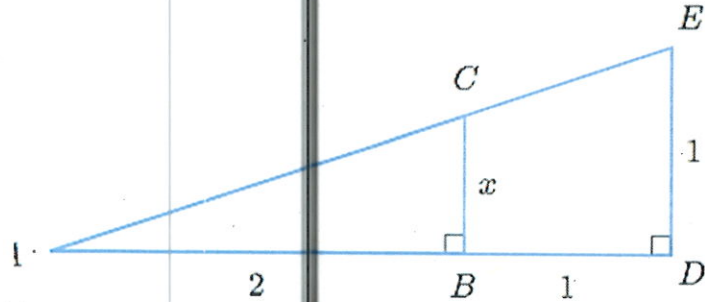
**Instructions:** Show all work. Use exact answers unless specifically asked to round. Be sure to complete all parts of each problem.

1. Solve for the variable.

$$\frac{2}{x} = \frac{3}{1}$$

$$3x = 2$$

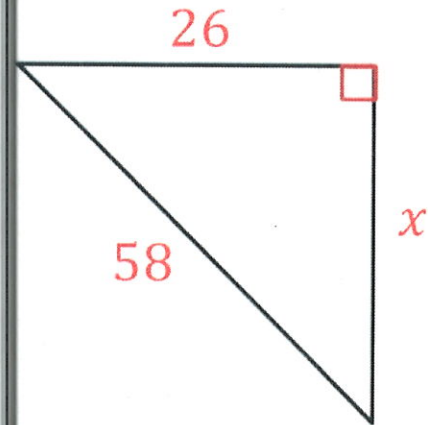
$$x = \frac{2}{3}$$



2. Find the length of the missing side.

$$58^2 - 26^2 = 2688$$

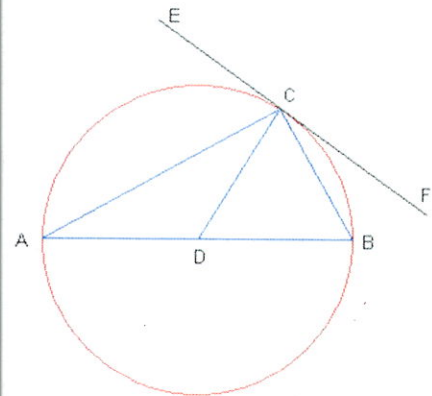
$$x = \sqrt{2688} = 8\sqrt{42}$$



3. If point D is the center, identify the following lines/line segments with the given terms.

- a.  $\overrightarrow{EF}$  tangent line = iv
- b.  $\overline{CD}$  radius = iii
- c.  $\overline{AB}$  diameter = i
- d.  $\overline{CB}$  and  $\overline{AC}$  Chord = ii

- i. Diameter c.
- ii. Chord d.
- iii. Radius b.
- iv. Tangent a.



4. Find the perimeter.

$$4 + 2 + 11 + 8 + 15 + 10 = 50 \text{ m}$$

