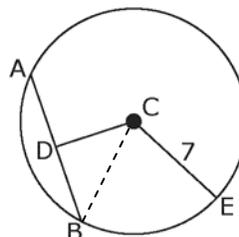


Section 10.2 Extra Practice

1. Find the length of CD to the nearest tenth.
 D is the midpoint of AB.
 AB is 8 units in length.



Label the diagram.

AD = _____

DB = _____

CB is a _____ of the circle. So, CB = _____.

$$CD^2 + DB^2 = CB^2$$

$$CD^2 + \boxed{}^2 = \boxed{}^2$$

$$CD^2 + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$CD^2 \underline{\hspace{2cm}} - \underline{\hspace{2cm}} = \underline{\hspace{2cm}} - \underline{\hspace{2cm}}$$

$$CD = \sqrt{\boxed{}}$$

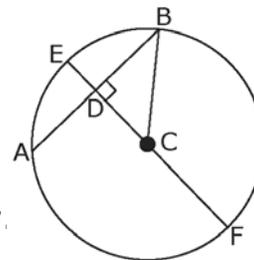
CD = _____



Name: _____

Date: _____

2. AB = 8 units
CD = 5 units.



- a) Find the length of CB to the nearest tenth.

Label the diagram with measurements you know.

AB = _____, so AD = _____ and BD = _____.

$\triangle BDC$ is a _____ triangle, so use the Pythagorean relationship to find the length of CB.

$$BD^2 + CD^2 = CB^2$$

- b) Find the length of ED.

C is the centre of the circle, so CB and CE are _____.

$$CD + ED = CE$$

$$5 + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} = ED$$

EF is the diameter.

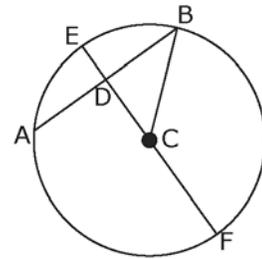
- c) Find the length of EF.



- 3.** Diameter $EF = 24$ units
 Chord $AB = 16$ units
 Find the lengths of CF , CB , BD , CD , and DE to the nearest tenth.

a) Label the diagram with measurements you know.

b) Find the lengths of CF and CB .



c) Diameter EF bisects chord AB at D .
 Find the length of BD .

d) Find the length of CD .

$\triangle BDC$ is a _____ triangle, so use the Pythagorean relationship to find the length of CD .

$$CD^2 + BD^2 = CB^2$$

$$CD^2 + \boxed{}^2 = \boxed{}^2$$

Label the measure of CD on the diagram.

CE is the radius.

e) Find the length of DE .

