1. Solve for the missing information, given the $\overleftrightarrow{AB}$ is a tangent line to circle C.
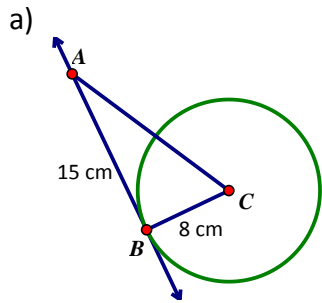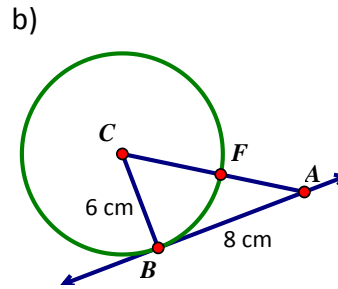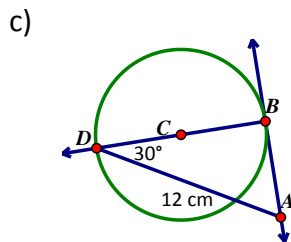
a)

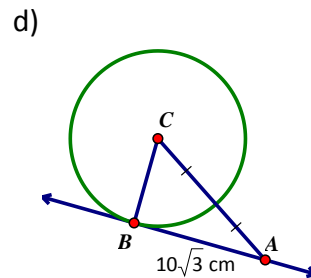15 cm

8 cm

AC = _____

b)

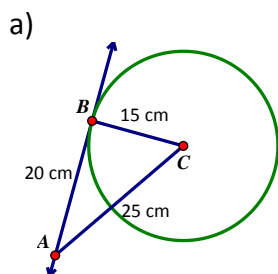6 cm

8 cm

FA = _____

c)

30°

12 cm

CB = _____ (E)

d)

$10\sqrt{3}$ cm

CB = _____ (E)

2. Determine if the $\overleftrightarrow{AB}$ is a tangent line or not.

a)

15 cm

20 cm

25 cm

Yes   or   No

b)

$8\sqrt{3}$ cm

8 cm
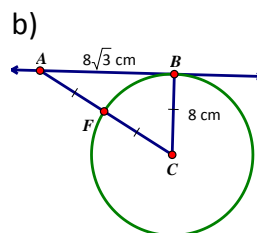
Yes   or   No

3. Solve for x ($\overline{AB}$ and $\overline{AD}$ are tangent lines)

C

D

B

$x^2 - 3$ 13 cm

A
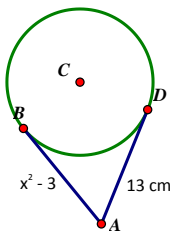
4. Solve for the missing information (Lines that appear to be tangent are tangent.)

AC = 18 cm, CE = 30 cm & AF = 10 cm

C

D

B

G

A

F

E
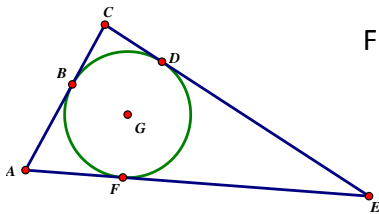
FE = _____

5. Given that $\overleftrightarrow{AB}$ is tangent to circle C and EA = 10 cm and AB = 12 cm, determine CB. (Hint: Label the two radii with x)

C

E

B

A