(10.4)

Tangents:

Secants:
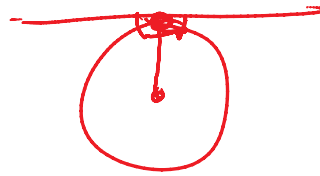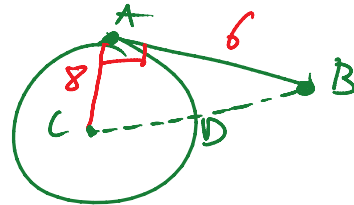
Postulates

①

$AB = 6$
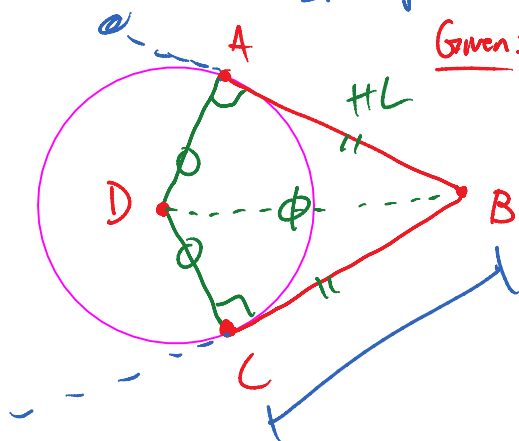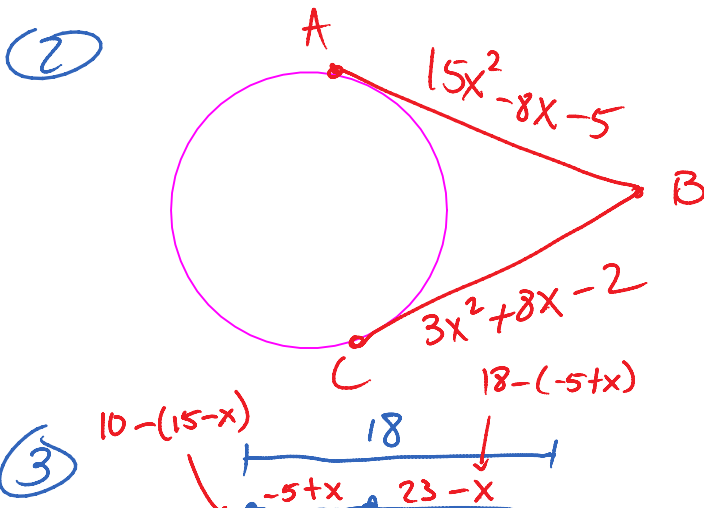
$r = 8$

Given ⊙C & AB Tangent

Find CB & DB

10   2

Theorm: If two tangents segments are drawn from the same point then they are ≅.

Given: $\overline{AB}$ and $\overline{BC}$ are Tangents
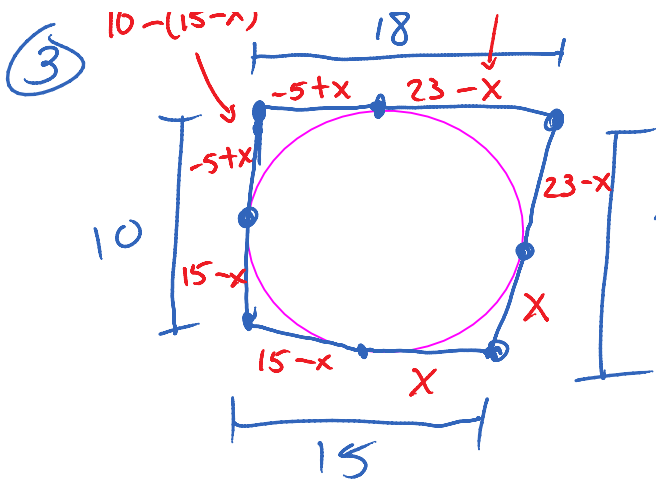
⊙D

HL

Prove: $\overline{AB} \cong \overline{BC}$

②

$15x^2 - 8x - 5$

$3x^2 + 8x - 2$

B

1. 12
2. 6
3. 4

$12x^2 - 16x - 3 = 0$

$(6x + 1)(2x - 3) = 0$

$x = -\frac{1}{6}$ $x = \frac{3}{2}$

③

$10 - (15 - x)$

18

$18 - (-5 + x)$

$-5 + x$ $23 - x$

③ 10−(15−x)

18

−5+x   23−x

−5+x

10

15−x   23−x

15−x   x

X

15

? = 23−x+x

= 23

x/4≠
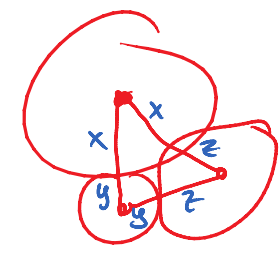
Common Tangent Problems
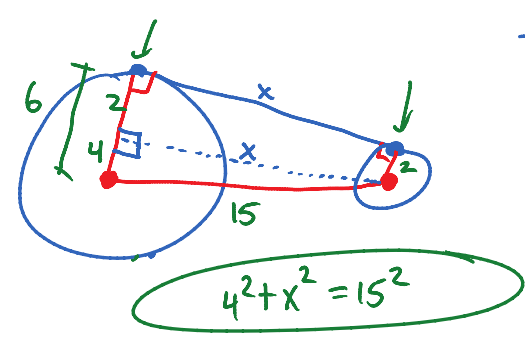
① Rt. △
② Rectangle

Internal

External

6
2
4
x
x
15

$4^2 + x^2 = 15^2$

Internal

x   6
15   2
6   x

$x^2 + 8^2 = 15^2$