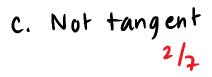
p. 466: 19, 20, 24, 25, 27, 29

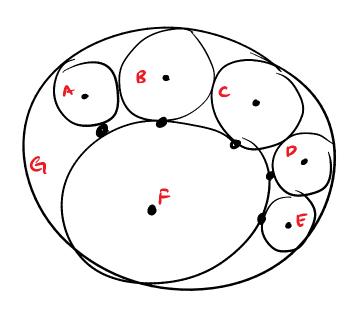
#19

If 2 of 7 circles are chosen at random, what is the probability that the chosen pair are

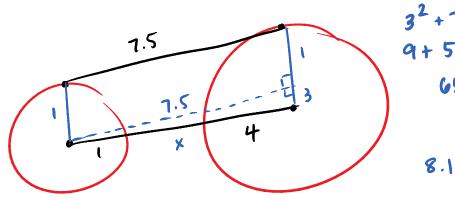








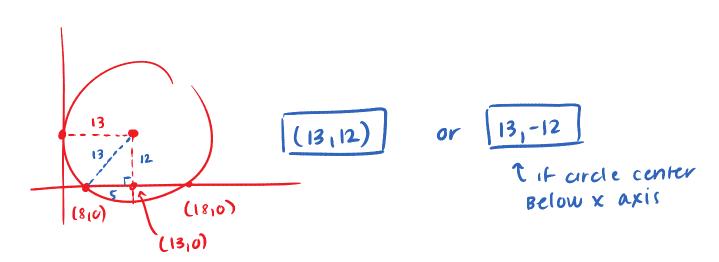
#20 Find, to the nearest tenth, the distance between two ardes if their radii are I and 4, and the length of the common external tangent is 7 ½



$$3^{2} + 7.5^{2} = x^{2}$$

 $9 + 56.25 = x^{2}$
 $65.25 = x^{2}$
 $8.1 \approx x$
 $8.1 - 4 - 1 = \boxed{3.1}$

#24 Find the coordinates of the center of the circle that is tangent to the y-axis and intersects the x-axis at (8,0) and (18,0)



#25 Given: Two Concentric ardes w/center E

CO L AE

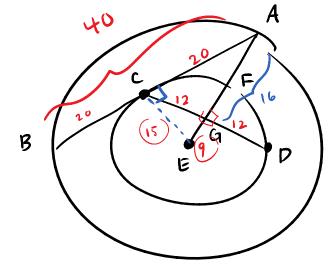
AB tangent at C

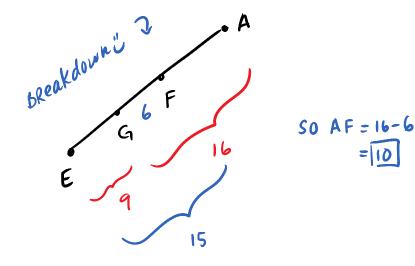
Find: AF

alt. on hypotenuse

$$12^2 = EG \cdot 16$$

 $144 = 16EG$
 $EG = 9$

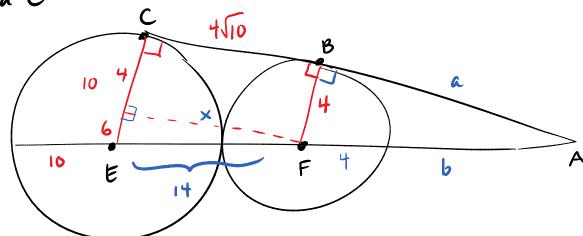




#27 Given & Eand F w/ Ac tangent at B and C

D

Find: AB



$$x^{2} + 6^{2} = 14^{2}$$

 $x^{2} + 3^{2} = 7^{2}$

$$\chi^2 = 40$$

$$\frac{a}{4\sqrt{10}+a} = \frac{4}{10}$$

$$\alpha = 8\sqrt{10}$$

$$AB = 8\sqrt{10}$$



#29

