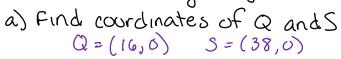
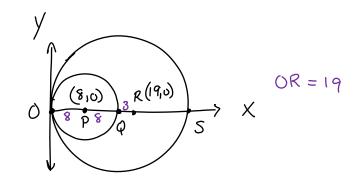
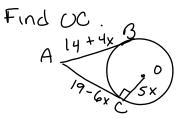
3 OP, OR internally tangent at O.





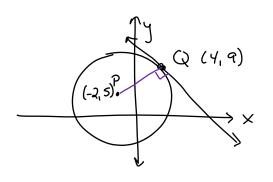
6) AB & AC are tangents to GO



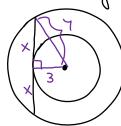
(1) a) Find the radius of OP

$$(=\sqrt{(4-2)^2+(9-5)^2}=\sqrt{52}=\sqrt{2\sqrt{13}}$$

b) Slope of tangent $M_{PQ} = \frac{9-5}{4-2} = \frac{1}{6} = \frac{2}{3}$

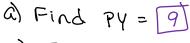


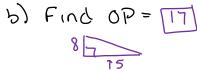
(12) 2 concentric Os have radii 3 and 7. Find the length of chord of the larger O that is tangent to smaller O

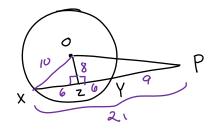


$$X^{2}+3^{2}=7^{2}$$
 $X^{2}+9=49$
 $X^{2}=40$
 $X=250$
(chord=450)

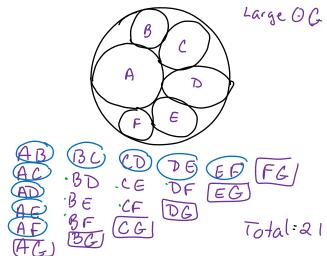
(17) Radius of 00 = 10 PX = 21 and 8 units from center



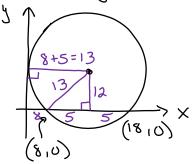




- 19) If two of 7 () are chosen at random, what is the probability that the chosen pair
- \square a) internally tangent $\frac{6}{21} = \boxed{\frac{2}{7}}$
- 6) externally tangent = 3
 - · c) not tangent $\frac{6}{21} = \frac{2}{7}$



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

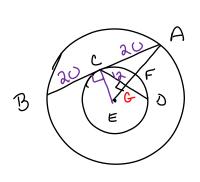


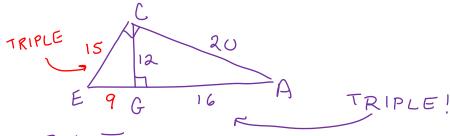
Center (13,12)

2 concentric Os with center E.

AB = 40, CD = 24, CD LAE, AB tangent at C.

Find AF.





To find EG, Geometric Mean!

$$\frac{EG}{12} = \frac{12}{16}$$
 $16(EG) = 144$
 $EG = 9$