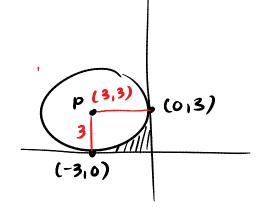
OP istangent to the xaxis and the yaxas



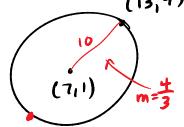
- a. Find an equation of the circle $(x-3)^2 + (y-3)^2 = 9$
- b. Find the area of the shaded region

$$A_{0} = 3.3 = 9$$

- #16 The point (13,9) is on a circle centered at (7,1)
- a. Write an equation of arde

$$r = \sqrt{(6)^2 + (8)^2} = \sqrt{100} = 10$$

$$(x-7)^2 + (y-1)^2 = 100$$



- b Area 1001
- c. Circumference 2011
- d. Coordinates of points directly opposite (13,9) use midpt
- e. Writer in point slope form, an equation of the line tangent to the circle (13,9)

$$1m = -\frac{3}{4}$$
 $y-9=-\frac{3}{4}(x-13)$

f. distance between (19,6) and center 13, radius distance between (19,6) and circle 13-10 =

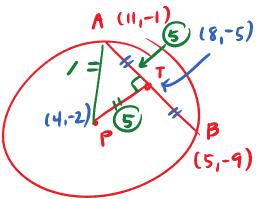
#20 Consider the circle represented by
$$(x+1)^2 + (y+2)^2 = 50$$

C: (4,-2) r: 5/2

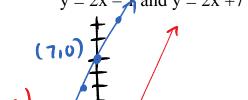
Let P be the center of the circle and T be a point on chord AB such that PT is perpendicular to AB. If A = (11,-1) and B = (5,-9) what is,

a. PT? =
$$\sqrt{(4)^2 + (3)^2}$$

= $\sqrt{25}$ = $\sqrt{5}$



#23 Find the distance between the lines represented by:



$$y = 2x - 1$$
 and $y = 2x + 7$

P.O.I.:
$$-\frac{1}{2} \times -1 = 2 \times +7$$

 $-8 = \frac{5}{2} \times$
 $\times = -\frac{16}{2} \quad y = \frac{3}{5}$

$$y = -\frac{1}{2}x - \frac{1}{2}x$$

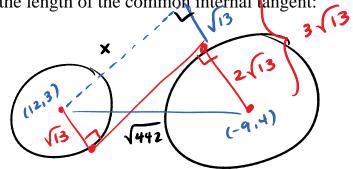
$$y = -\frac{1}{2}x - 1$$
 $d = \sqrt{(0 + \frac{1b}{5})^2 + (\frac{3}{5} + 1)^2}$

$$d = \sqrt{64/5} = \frac{8(5)}{5}$$

$$(x+9)^{2}+(y-4)^{2}=52$$
 $C:(-9.4)$
and $r:2\sqrt{13}$

$$(x-(2)^2+(y-3)^2=13$$
 C: (12,3)



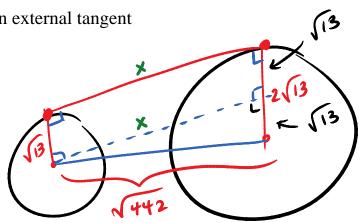


$$d = \sqrt{(21)^2 + (1)^2}$$

$$\chi^{2} + (3\sqrt{13})^{2} = (442)^{2}$$

$$x^2 + 117 = 442$$

a. Common external tangent



$$x^{2} + (\sqrt{13})^{2} = (\sqrt{442})^{2}$$

$$x^{2} + 13 = 442$$

$$x^{2} = 429$$

$$x = \sqrt{429}$$

#26

Find the area of the quadrilateral with vertices at (-3,2), (15,6), (7,12), and (-7,8)

he area of the quadrilateral with vertices at (-3,2), (15,6), (7,12), and (-7,8)

$$\begin{vmatrix}
-3, 2 \\
15, 6 \\
7, 12 \\
-7, 8 \\
-3, 2
\end{vmatrix} = \begin{vmatrix}
120
\end{vmatrix} (204) - (-36) \begin{vmatrix}
30 + 42 + -84 + -24 \\
-36 \end{vmatrix}$$
"Shoelace method"

