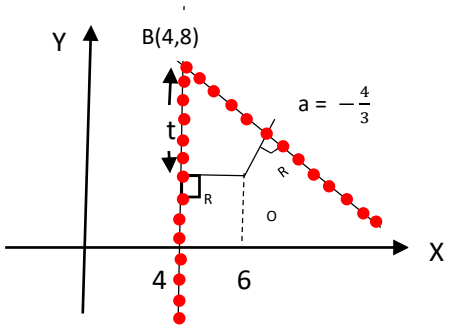
Circle and tanget



0 is the center of the circle
O(6,2)

B(4,8) a = $-\frac{4}{3}$

The tanget equation $\Rightarrow$ y – 8 = $-\frac{4}{3}$ $(x-4)$

3(y – 8) + 4(x – 4) = 0

$\frac{4x+3y-40}{+5} = 0$

O(6,2) the center

R = $\left|\frac{6.4+3.2-40}{5}\right|$ = 2

The circle equation $(x-6)^2 + (y-2)^2 = 4$

$t^2 = (4-6)^2 + (8-2)^2 - 4 = 36 \Rightarrow t = 6$

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(BO) $\Rightarrow$ a = $\frac{8-2}{4-6} = \frac{6}{-2} = -3$

The equation of tanget (vertical) is

X = 4