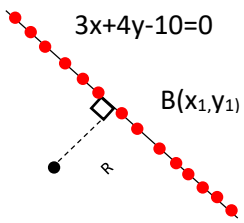
Meeting between the tanget and circle



We know the tanget

3x+4y-10=0

We know the equation of the circle

$x^2 + y^2 = 4$

To find $B(x_1, y_1)$ = ?

$x^2 + y^2 = 4$

$x.x + y.y = 4$

$x_1x + y_1.y - 4 = 0$ Tanget

$3x + 4y - 10 = 0$

$\frac{4}{y_1} = \frac{5}{2}$ $\Rightarrow y_1 = 1.6$

$\frac{4}{x_1} = \frac{-10}{-4} = \frac{5}{2}$ $\Rightarrow x_1 = 1.2$

B (1.2,1.6)

We want to see that

$x_1^2 + y_1^2 = 4$

1.44 + 2.56 = 4