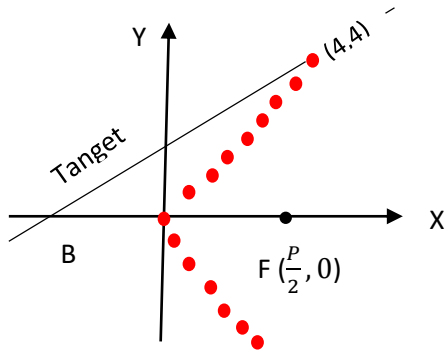


Parabola 2



a. $y^2 = 2 \cdot px$
 $A(4,4)$ Point on the parabola
 $4^2 = 2p(4)$
 $16 = 8p$
 $p = 2, \quad \frac{p}{2} = 1 \quad F(1,0)$

b. $y^2 = 2 \cdot px$
 $p = 2$
 $y^2 = 4x$

c. The tangent line crossing X ($y=0$)

$$y^2 = 2 \cdot (2x) \quad \Rightarrow \quad y_1 y = 2(x_1 + x), \text{ tangent}$$

$$A(4,4) \quad \Rightarrow \quad 4 \cdot y = 2(x+4)$$

$$2y = x + 4$$

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

$$(B) \quad y = 0$$

$$0 = \frac{1}{2}x + 2$$

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

$$x = -4$$

B(-4,0)