

: 1.2/60

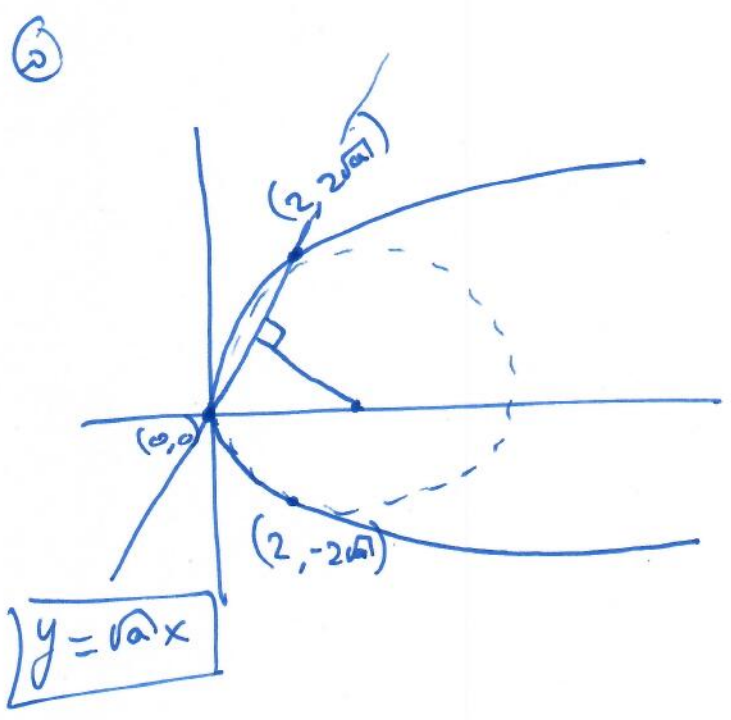
1)  $x^2 + y^2 - 2ax - 2y = 0$       $y^2 = 2ax$   
②

$$x^2 + y^2 - y^2 - 2x = 0$$

$$x^2 - 2x = 0$$

$$x(x - 2) = 0$$

- $x = 0$   
 $(0, 0)$
- $x = 2$   
 $(2, 2\sqrt{a})$   
 $(2, -2\sqrt{a})$



$$\textcircled{d} \quad x^2 - 2(a+1)x + y^2 = 0$$

(1)

1)  $\rightarrow$  1  $\rightarrow$  1  $\rightarrow$  1  $\rightarrow$  1

$$x^2 - 2(a+1)x + (a+1)^2 + y^2 = (a+1)^2$$

$$(x - (a+1))^2 + y^2 = (a+1)^2$$

3)  $\rightarrow$  1  $\rightarrow$  1  $\rightarrow$  1  $\rightarrow$  1

$$\text{3) } = ((a+1), 0)$$

$$R = \{ a+1 \}$$

(2)

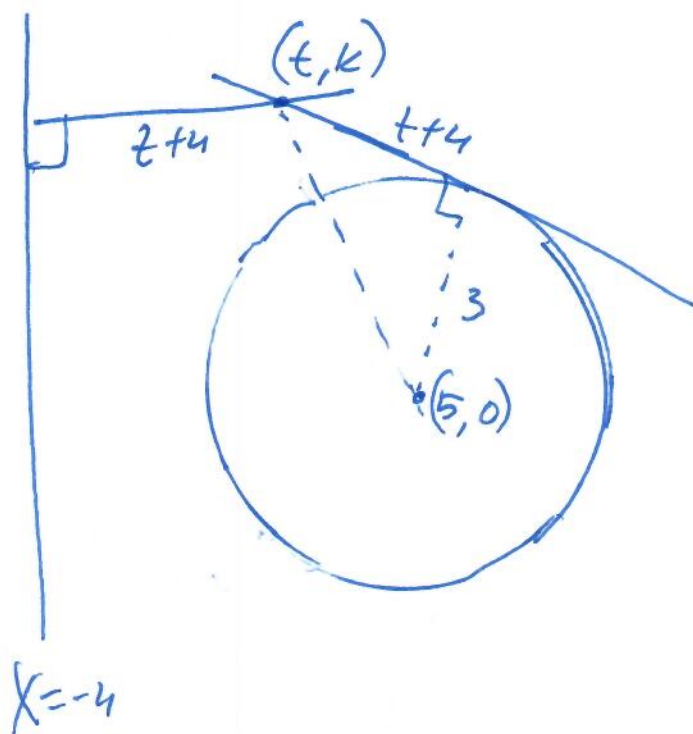
$$2\sqrt{5} = \frac{-\sqrt{a}(a+1) + 0}{\sqrt{a+1}}$$

$$20 = \frac{a(a+1)^2}{a+1}$$

$$20 = a(a+1)$$

$$\boxed{a=4}$$

$$\cancel{a=-5}$$



$$3^2 + (t+4)^2 = (t-5)^2 + k^2$$

$$9 + t^2 + 8t + 16 = t^2 - 10t + 25 + k^2$$

$$\boxed{k^2 = 18t}$$

→ (1, 3)