

es 16

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

$$\frac{1}{a-1} \neq 0$$

$$a-1 \neq 0$$

$$a \neq 1$$

Def. 2 affinita  $F(0;2)$

$$V(0;0) \Rightarrow b=0 \text{ e } c=0 \Rightarrow \Delta=0$$

$$x_F = \frac{1-A}{4A} = \frac{1}{4A} = \frac{1}{4\left(\frac{1}{a-1}\right)}$$

$$\text{Se } F(0;2) \Rightarrow y_F = 2$$

$$\frac{1}{4\left(\frac{1}{a-1}\right)} = 2$$

$$\frac{1}{4} = 2$$

$$\frac{a-1}{4} = 2$$

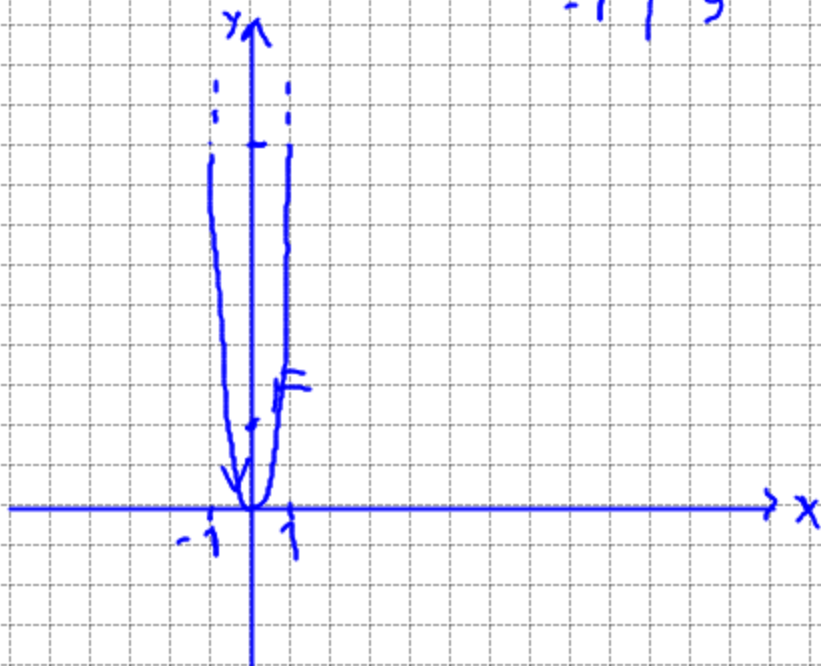
$$a-1 = 8$$

$$a = 9$$

Se  $b=0$ ,  $c=0$  e  $a=9$

$$y = 9x^2$$

x	y
1	9
-1	9



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$$P: y = ax^2 \quad F(0; 5)$$

Def. 2

$$y = ax^2 \rightarrow b = 0 \text{ e } c = 0 \Rightarrow \Delta = 0$$

$$V(0; 0)$$

$$x_F = \frac{1 - \Delta}{4a} \Rightarrow \frac{1}{4a}$$

$$\frac{1}{4a} = 5$$

$$20a = 1$$

$$a = \frac{1}{20}$$

$$\Rightarrow y = \frac{1}{20} x^2$$

es 29

$$F(-2; -1) \quad d: y = -3 \quad P(x; y) \in \mathcal{P}$$

def. l'eq. di  $\mathcal{P}$

$$H \in d$$

$$\overline{PF} = \overline{PH}$$

$$\sqrt{(x+2)^2 + (y+1)^2} = \frac{|y+3|}{\sqrt{1}}$$

$$\sqrt{(x+2)^2 + (y+1)^2} = |y+3|$$

$$(x+2)^2 + (y+1)^2 = (y+3)^2$$

$$x^2 + 4x + 4 + y^2 + 1 + 2y = y^2 + 9 + 6y$$

$$x^2 + 4x + 5 + 2y - 9 - 6y = 0$$

$$x^2 + 4x - 4 - 4y = 0$$

$$4y = x^2 + 4x - 4$$

$$y = \frac{1}{4} x^2 + x - 1$$