328 
$$V(1;1), F(\frac{3}{2};1).$$

$$\left[ x = \frac{1}{2}y^2 - y + \frac{3}{2} \right]$$

$$V(1,1) \rightarrow \begin{cases} -\frac{k}{2}a = 1\\ -\frac{\Delta}{4}a = 1\\ \frac{1-\Delta}{4}a = \frac{3}{2} \end{cases}$$

Si rede che 
$$\sqrt{2}$$
 F

harms le stene

$$\left[x = \frac{1}{2}y^2 - y + \frac{3}{2}\right]$$
harms le stene
$$x = \frac{1}{2}y^2 - y + \frac{3}{2}$$
ordinate, quindi
$$x = \frac{1}{2}y = 1$$

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

$$\begin{cases} b = -2a \\ \Delta = -4a \\ 2 - 2\Delta = 12\alpha \Rightarrow 1 - \Delta = 6\alpha \end{cases}$$

$$\begin{cases} b = -1 \\ \Delta = -2 \\ \alpha = \frac{1}{2} \end{cases}$$

$$\Delta = b^{2} - 4ac$$

$$4\alpha c = b^{2} - \Delta \qquad c = \frac{b^{2} - \Delta}{4a} = \frac{1 + 2}{2} = \frac{3}{2}$$

$$\begin{cases} x = \frac{1}{2}y^{2} - y + \frac{3}{2} \end{cases}$$

336 
$$V(\frac{1}{2}; \frac{1}{4}), d: y = \frac{1}{6}.$$

$$[y = 3x^2 - 3x + 1]$$

$$V(-\frac{b}{2a}, -\frac{\Delta}{4a})$$

$$y = \alpha x^2 + l x + c$$

$$y = -\frac{1+0}{4a}$$

$$\begin{pmatrix}
-\frac{b}{2a} = \frac{1}{2} \\
-\frac{\Delta}{4a} = \frac{1}{4}
\end{pmatrix}$$
al ports di questo
$$-\frac{1+\Delta}{4a} = \frac{1}{6}$$

$$\frac{1}{4} = \frac{1}{4} \alpha + \frac{1}{2} b + c$$

$$\frac{1}{4} = \frac{1}{4}\alpha + \frac{1}{2}\beta + c$$

$$\begin{cases}
\alpha = 3 \\
k = -3 \\
c = 1
\end{cases}$$

$$\begin{cases} \alpha = 3 \\ k = -3 \end{cases} \qquad y = 3x^2 - 3x + 1$$

## ATTENHOUE!

Se aveni sols il vertice 
$$\sqrt{\left(\frac{1}{2}, \frac{1}{4}\right)}$$

$$y = \alpha \times^2 + b \times + c$$

$$\sqrt{\left(\frac{1}{2},\frac{1}{4}\right)}$$

$$\begin{cases}
-\frac{k}{2a} = \frac{1}{2} \\
-\frac{\Delta}{4a} = \frac{1}{4}
\end{cases}$$

$$\begin{cases}
l = -\alpha \\
l^{2} - 4ac \\
\Delta = -\alpha
\end{cases}$$

$$\begin{cases}
l = -\alpha \\
\alpha - 4ac = -\alpha \\
\alpha + 2lr + 4c = 1
\end{cases}$$

$$\begin{cases}
l = \frac{1}{4}a + \frac{1}{2}lr + c
\end{cases}$$

$$\begin{cases}
l = -\alpha \\
4 = -\alpha \\
4 = -\alpha
\end{cases}$$

$$(a + 2lr + 4c = 1)$$

$$\begin{cases} lr = -a \\ l^{2}-4ac \\ \Delta = -a \end{cases}$$

$$1 = a + 2lr + 4c$$

$$\begin{cases} b = -\alpha \\ \alpha^2 - 4\alpha c = -\alpha \\ \alpha + 2b + 4c = 1 \end{cases}$$

$$\begin{cases} b = -a \\ a - 4c = -1 \\ a + 2b + 4c = 1 \end{cases}$$

$$\begin{cases} b = -a \\ a - 4c = -1 \end{cases} \begin{cases} b = -a \\ 4c = a + 1 \\ a + 2b + 4c = 1 \end{cases} \begin{cases} a - 2a + a + 1 = 1 \Rightarrow 0 = 0 \end{cases}$$

345 
$$A(-2; 5), B(1; -7), x = -\frac{5}{2}.$$

$$y = ax^2 + lx + c$$

$$\int -\frac{l}{za} = -\frac{5}{2}$$

$$\begin{cases} -\frac{k}{z\alpha} = -\frac{5}{2} \\ 5 = 4\alpha - 2k + C \end{cases}$$

$$\Rightarrow -7 = \alpha + k + C$$

SE HO FUOCO E

$$d: y = -\frac{1}{4}$$

$$\begin{cases} -\frac{b}{2a} = 1\\ \frac{1-\Delta}{4a} = \frac{1}{4}\\ -\frac{1+\Delta}{4a} = -\frac{1}{4} \end{cases}$$

$$-\frac{1+\Delta}{40} = -\frac{1}{4}$$

offere ...

PF = ol (P,d) DEFINITIONE DI PARABOCA

$$\sqrt{\left(x-1\right)^{2}+\left(y-\frac{1}{4}\right)^{2}}=\left|y-\left(-\frac{1}{4}\right)\right|$$

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

$$(x-1)^{2} + (y - \frac{1}{4})^{2} = [y + \frac{1}{4}]$$

$$x^{2} + 1 - 2x + y^{2} + \frac{1}{16} - \frac{1}{2}y = y^{2} + \frac{1}{16} + \frac{1}{2}y$$

$$y = x^2 - 2x + 1$$

372 Determina l'equazione della parabola  $y = ax^2 + bx + c$  passante per i punti A(1; 2), B(3; 0) e tangente alla bisettrice del secondo e quarto quadrante.  $[y = 3x^2 - 13x + 12]$ 

$$y = \alpha x^2 + \beta x + c$$

$$A \rightarrow \begin{cases} 2 = \alpha + k + c \\ 0 = 3\alpha + 3k + c \end{cases}$$

$$A \to \begin{cases} 2 = a + b + c \\ 0 = 3a + 3b + c \end{cases} \begin{cases} c = 2 - a - b \\ 3a + 3b + 2 - a - b = 0 \end{cases}$$

$$\begin{cases} c = 2 - \alpha - k \\ 2k = -8\alpha - 2 \rightarrow k = -4\alpha - 1 \end{cases}$$

$$\begin{cases} c = 2 - \alpha + 4\alpha + 1 \\ k = -4\alpha - 1 \end{cases}$$

$$\int b = -4\alpha - 1$$

$$y = \alpha x^{2} + (-4\alpha - 1)x + 3\alpha + 3$$

$$-x = ax^{2} + (-4a - 1)x + 3a + 3$$

$$a \times^{2} + (-4a - 1)x + 3a + 3 + x = 0$$

$$\alpha x^{2} + (-4a - 1 + 1) \times +3a + 3 = 0$$

$$0 \times \frac{2}{4a} \times 43a + 3 = 0$$

$$1 \times \frac{2}{4a} \times 43a + 3 = 0$$

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$$y = 3 \times^2 - 13 \times + 12$$

$$(a=3)$$

$$16a-4(3a+3)=3$$

$$16a-12a-12=9$$