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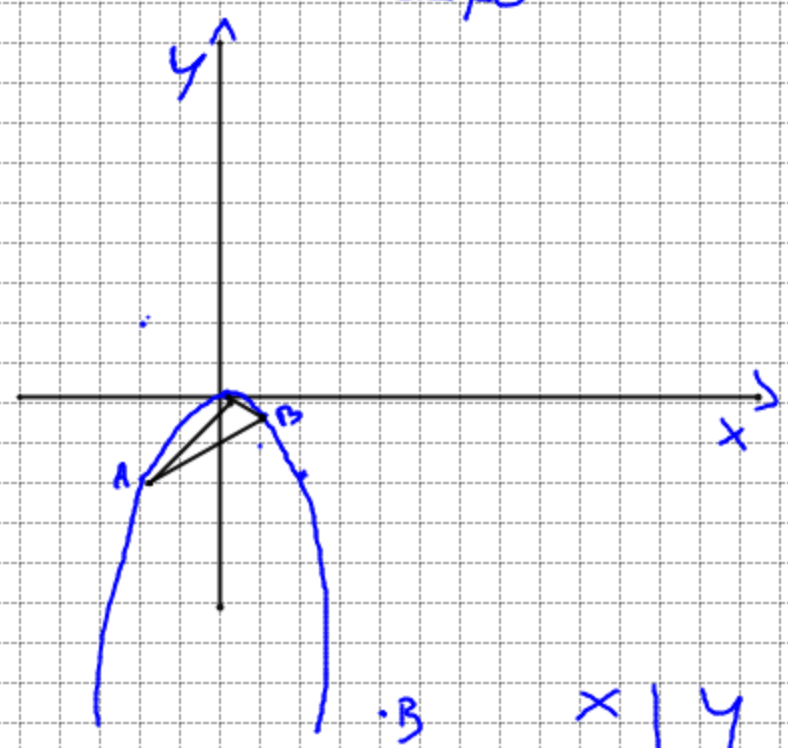
$Oy - 3x^2 = 0 \quad y = \frac{3}{a}x^2$

può capp. una parab. per qualsiasi valore di a?

$a \neq 0$

d: $y = \frac{1}{2}$

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



$y = -\frac{1}{4\left(\frac{3}{a}\right)}$

$y = -\frac{a}{12}$

$-\frac{a}{12} = \frac{1}{2} \quad -a = 6 \quad a = -6$

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

x	y
0	0
1	-1/2
2	-2
-2	-2
4	-8

$V(0;0)$

$A\left(-2;-2\right) \quad B\left(1;-\frac{1}{2}\right)$

$\overline{AB} = \sqrt{(x_B - x_A)^2 + (y_B - y_A)^2} =$

$\sqrt{(1+2)^2 + \left(-\frac{1}{2}+2\right)^2} = \sqrt{9 + \frac{9}{4}} =$

$\sqrt{\frac{45}{4}} = \frac{3}{2}\sqrt{5}$

eq retta AB $\quad y = mx + q$

$m_{AB} = \frac{y_A - y_B}{x_A - x_B} \quad m_{AB} = \frac{-2 + \frac{1}{2}}{-2-1} = \frac{-\frac{3}{2}}{-3}$

$-\frac{3}{2}\left(-\frac{1}{3}\right) = +\frac{1}{2} \quad m = \frac{1}{2}$

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

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

$-2 = -1 + q \quad q = -1$

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

distanza V da r

$\frac{|ax_0 + by_0 + c|}{\sqrt{a^2+b^2}} = \frac{|1|}{\sqrt{\frac{1}{4}+1}} = \frac{1}{\sqrt{\frac{5}{4}}}$

$h = \frac{2}{\sqrt{5}} \quad A = \frac{\frac{3}{2}\sqrt{5} \cdot \frac{2}{\sqrt{5}}}{2} = \frac{3}{2}$

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$$x-\sqrt{y+1}=2$$
$$-\sqrt{y+1}=2-x$$
$$\sqrt{y+1}=x-2$$

$$\begin{cases} y+1\geq 0 \\ x-2\geq 0 \\ y+1=x^2+4-4x \end{cases} \quad \begin{cases} y\geq -1 \\ x\geq 2 \\ x^2-4x-y+3=0 \end{cases}$$
$$y=x^2-4x+3$$

$$x_{12}=\frac{4\pm\sqrt{16-4(3)}}{2}=\frac{4\pm\sqrt{16-12}}{2}$$

$$\frac{4\pm\sqrt{+4}}{2}=\frac{4\pm 2}{2} \quad x_1=3,\ x_2=1$$

$$V\left(-\frac{b}{2a};-\frac{\Delta}{4a}\right) \quad V\left(\frac{4}{2};-1\right)$$

$$-\frac{(b^2-4ac)}{4a} \quad -\frac{(16-12)}{4}=-\frac{4}{4}$$

x