352. Решите графически уравнение
$$-\frac{1}{4}x^2 + x + 2 = \sqrt{x}$$
.

$$-\frac{1}{4}\cdot 7 + 2 = -1 + 2 = 1$$

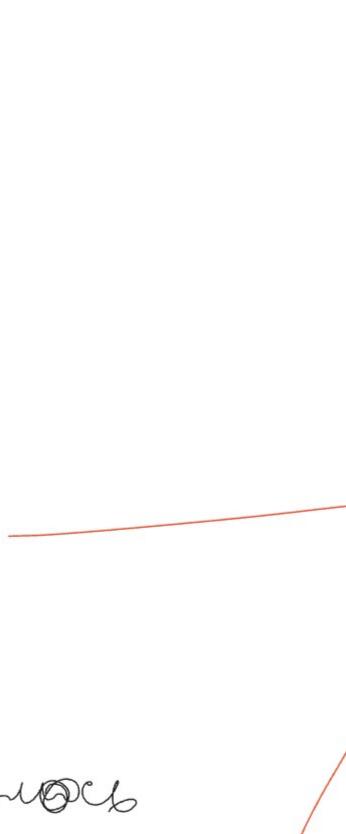
$$-\frac{1}{4}\cdot 46 + 4 = 0$$

2) y= TX - 2 (nocrpoenue ocynsectenemocs

Ombem: x=y

C haurensolo Colona morapura

y mon 2 eg. bury)



354. Построив в одной системе координат графики функций $y = x^2 + 4x + 1$ и $y = \frac{6}{x}$, определите количество корней уравнения $x^2 + 4x + 1 = \frac{6}{x}$.

 $\int_{0}^{2} = \chi^{2} + 4\chi + 1 = (-2)^{2} + 4(-2) + 1 = 4 - 8 + 1 = -3$

2) horrigen hepecerenue c ocho
$$y$$
:
$$\chi = 0 = y - x^2 + Ux + 1 = 1$$

$$= 0 + 0 + 1 = 1$$

Omben: 3 kepper

395. Упростите выражение:

1)
$$(2\sqrt{a} + 3\sqrt{b})(4a - 6\sqrt{ab} + 9b) - 9\sqrt{9b^3}$$
;

2)
$$(3\sqrt{2} - 2\sqrt{28} + 4\sqrt{63}) \cdot \sqrt{7} - \sqrt{126}$$
;

3)
$$(2-\sqrt{3}+\sqrt{6})(2+\sqrt{3}-\sqrt{6})$$
.

$$40x - 6\sqrt{ab} + 9b = (2\sqrt{a} - 3\sqrt{b})^{2}$$

$$x^{2} - 2xy + y^{2} = (x - y)^{2}$$

$$x^{2} = 40x$$

$$x = 40x$$

$$y^{2} = 9b$$

$$y = 3\sqrt{b}$$

$$y = 3\sqrt{b}$$

$$x = 40x$$

$$y = 3\sqrt{b}$$

$$y = 3\sqrt{b}$$

1)
$$(2\sqrt{a}+3\sqrt{b})(4\alpha-6\sqrt{a}b+9b)-9\sqrt{9}b^{3}=$$

$$=(2\sqrt{a}+3\sqrt{b})(2\sqrt{a}-3\sqrt{b})-9\sqrt{9}b^{3}=(2\sqrt{a}+3\sqrt{b})(2\sqrt{a}-3\sqrt{b})(2\sqrt{a}-3\sqrt{b})$$

$$-9\sqrt{9}b^{3}=(4\alpha-9b)(2\sqrt{a}-3\sqrt{b})-9\sqrt{9}b^{3}=$$

$$=8\alpha\sqrt{a}-12\alpha\sqrt{b}-18b\sqrt{a}+27b\sqrt{b}-9\sqrt{9}b^{3}=$$

$$=8\alpha\sqrt{a}-12\alpha\sqrt{b}-18b\sqrt{a}+27b\sqrt{b}-27b\sqrt{b}=$$

$$9\sqrt{9b^3} = 9.\sqrt{9}.\sqrt{b^3} = 9.3.\sqrt{b^2.b^7} = 27b\sqrt{b}$$