

(Pujtex 2024)

N1 Haūtu bce
$$t: X^2 + 4\sqrt{2} t x + 9t^2 - 9 = 0$$
 имеет

2 разлигиях действ. порня, их произв. >0.

$$(=> 12) > 0 \qquad (=> 132t^2 - 36t^2 + 36 > 0$$

(Puztex 2019)

$$A = ?$$
: $(x+2)\sqrt{ax+x-x^2-a} \ge 0 + 32$ peux:

 $X_1 - X_2 = 4$.

1) Peuwin Hepabexerbo.

 $\begin{cases} x+2 \ge 0 \\ ax+x^2-x^2-a=0 \end{cases}$
 $\begin{cases} x \ge -2 \\ x^2-(a+1)x+a=0 \end{cases}$
 $\begin{cases} x \ge -2 \\ ax+x-x^2-a \ge 0 \end{cases}$
 $\begin{cases} x \ge -2 \\ x^2-(a+1)x+a \le 0 \end{cases}$
2) Paccinospum (2) - 66. Rep-bo:

 $\begin{cases} x \ge -2 \\ x^2-(a+1)x+a \le 0 \end{cases}$
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 $\begin{cases} x \ge -$

Cyaze croper eye 2 bapuara:

1) Tocroburo
$$Q$$
 - Crebo or -2 :

 Q - Q -

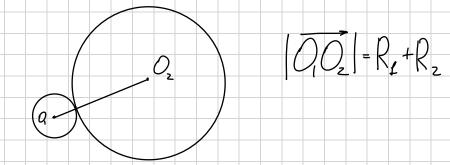
To Som anomiturecare metogn pemerus Рассмотрим графические методы: вспомким преобразования графиков: y2=f(|x|)= /f(x),x20 y2=f(-x),x20 $G_{i} = f(x)$ Если (х, у) ∈мп-ву, то и (-х, у) ∈мп-ву=) =) CUMM. OTH. OY $y_3 = |f(x)| = |f(x)|, f(x) \ge 0$ Y4 = f(x) ECAU (x,y) & MN-by TOZEK, TO U · (x,-y) & MY-by =) CEIMM OTH. OX

1)
$$\int_{0}^{2} \chi^{2} + \chi^{2} = 6\chi - 16 + 8\chi$$
 (1) uneer eg. peur $(\chi - 6)^{2} + (\chi - 8)^{2} = \alpha^{2}(2)$ uneer eg. peur 1) $\int_{0}^{2} \alpha - 2\pi$

$$(X - 6x + 9 + 9 - 8y + 16 = 9)$$

$$(X - 3)^{2} + (y - 4)^{2} = 3 - OKP - 76 ((3, 4); R_{1} = 3)$$
year paguy c

$$(x-6)+(y-8)=\alpha^{2}|\alpha|^{2}-o\kappa p-\pi ((6,8); R=|\alpha|)$$



I) Bryspexice kocanie:
$$R_2R_1$$
 up pur $|QQ_2| = |R_1 - R_2| = |Q| - 3$

OTher: ± 8 ; ± 2 .

N2 $\int (|x| - 5)^2 + (y - 4)^2 = Q(1)$

UNELT EQ. PEW.

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

UNELT EQ. PEW.

1) Bryspexice kocanie: R_2R_1 up pur R_2
 Q_2

1) Bryspexice kocanie: R_2R_1 up pur R_2
 Q_3

1) Q_4

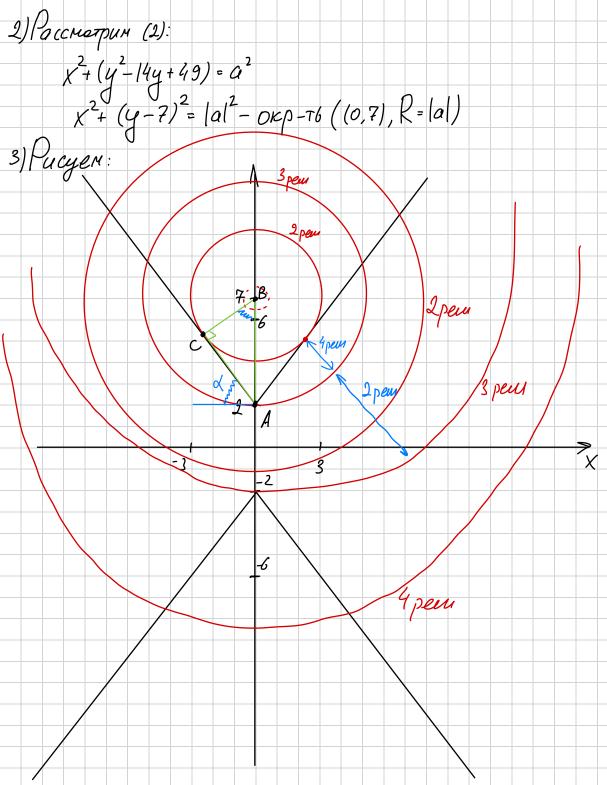
I) hocasue
$$CQ_2$$
:
 $|QQ_2| = \sqrt{0} + 3 = 0$ $Q = 4$
 $|Q_3| = \sqrt{0} - 3 = 0$ $Q = (3 + \sqrt{65})^2$

I) hocasue CQ_2 :
 $|QQ_3| = \sqrt{0} - 3 = 0$ $Q = (3 + \sqrt{65})^2$
 $|QQ_3| = \sqrt{0} - 3 = 0$ $Q = (3 + \sqrt{65})^2$

4) flytho $Q = \sqrt{6}$, the equiporthyer engage Q_1Q_2 Q_2 Q_3
 Q_4
 Q_4
 Q_5
 Q_5

A:
$$\sqrt{65} - 3 \vee 11$$
 $\sqrt{65} < 11 = \sqrt{15} - 3 < 8 = 0$ Korga O, Kocoerci Q
on injection O;

B: $8 \vee \sqrt{65} + 3 = 0$ Korga O, Kocoerci O; Ona injection O;
 $\sqrt{65} - 3 \vee 11 = 0$
 $\sqrt{65} + 3 = 0$ Korga O, Kocoerci O; Ona injection O;
 $\sqrt{65} - 3 \vee 15 = 0$
 $\sqrt{65} + 3 = 0$ Korga O, Kocoerci O; Ona injection O;
 $\sqrt{65} - 3 \vee 15 = 0$
 $\sqrt{65} + 3 = 0$
 $\sqrt{65} - 3 \vee 11 = 0$
 $\sqrt{65}$



a)
$$[0] = 7 - 2 = 5 - gae = 3 pun$$
 $[a] = 7 - (-2) = 9 - gae = 3 pun$

Other: ± 5 , ± 9 .

5) $\pm g = 4/3$: ABC. BC = ABcord = $5 = 3 = 3$
 $\Rightarrow |a| = 3 - gae = 2$ peus

Yheruruhor paguyc: $|a| \in (5, 9) - \text{tanke} = 2$ peus:

Other: $a \in \{\pm 3\}$ $|a| = (-9, -5)$ $|a| = (-9, -5)$

2) Pacchotpum (2) - OKp-T6: ((a,-a), R=4Va) Xo=Q (=) yo = -Xo - no 2TOU reponder yo - q (=) yo = -Xo - no 2TOU reponder "rataetco" yente our-tu 3) Hapucyen: I) Praconue двух премых - окружность дейся. касается cpayy 2-x hpring(x, T.K. U) TEOM. pacet of yentpo go Toren Racanus pabrui:

$$\begin{array}{c}
A = \overline{4} + \beta, & tg\beta = \frac{1}{3} \Rightarrow \sin \beta = \frac{1}{\sqrt{10}} \\
0 & 1\beta = \frac{3}{\sqrt{10}} \\
\Rightarrow R = \sqrt{a^2 + a^2} \sin \alpha = 4\sqrt{a} & \text{or copy lique, 270 and neverous organise biguing} \\
\sqrt{a} = 4 & \text{neverous organise} \\
\sqrt{a} = 4$$