

1) $A(-1, 9)$ $y = am^r + b2x + c$

$(r, 21)$

$$y = a(m - 21)^r + y_s$$

$$y = a(21 + 1)^r + a$$

$$1 = a \times 14 + a$$

$$-1 = a \times 14$$

$$a = -\frac{1}{14}$$

الطابق

الميل

$$(m^r + 5m + 1)$$

$$y = -\frac{1}{14} (m + 1)^r + a$$

$$y = -\frac{m^r}{14} - m + 1/14$$

2) $12^r + m2 + m + 4 = 0$

$\Delta > 0$

$$m^r - 12 \times r \times (m + 4) > 0$$

$$m^r - 12m - 48 > 0$$

$$(m - 12)(m + 4) > 0$$

$\downarrow$
12

$\downarrow$
-4

$$\begin{array}{c} -12 \quad 12 \\ \text{---} \text{---} \text{---} \\ \text{---} \text{---} \text{---} \\ \text{---} \text{---} \text{---} \end{array}$$

$(-\infty, -4) \cup (12, +\infty)$

3) $12^r + (m - 1)n + r - m = 0$

$$S = -\frac{b}{a} \quad p = \frac{c}{a}$$

$\Delta > 0$

$$S = \frac{1}{p}$$

$$12m^r + 1 - 12m - 12(r - m) > 0$$

$$12m^r + 1 - 12m - 12r + 12m > 0$$

$$\frac{-12m + 1}{12} = \frac{r}{12 - m}$$

$$a = (12 - 1)(m - 12)$$

$$a = 12m^r - 24m + 12$$

$$0 = 12m^r - 24m - 12$$

$$0 = m^r - 2m - 1$$

$$0 = (m - 1)(m + 1)$$

$$\frac{1}{12} \quad -\frac{1}{12}$$

$$m = \left(\frac{1}{12}\right), (-1)$$

$$12m^r + 12m - 12r > 0$$

$$-1 \pm \sqrt{1 + 4r} \quad -1 \pm \sqrt{1 + 4r}$$

$$\frac{-1 \pm \sqrt{1 + 4r}}{2}$$

$$\frac{-1 \pm \sqrt{1 + 4r}}{2}$$

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4) $x = n^r - r$

$0 = n^r - n - r$

$S = \frac{1}{1} = 1$ $p = -r$

$x^r + y^r = S^r - r$

$1 - r - r = a$

$x_1^r + n_1^r = \frac{1}{n_1} + \frac{1}{x_1}$

$(\frac{1}{n_1} + \frac{1}{n_1}) (\frac{1}{n_1} + \frac{1}{n_1})$

$(n_1 + n_1) (n_1^r + n_1^r + n_1 n_1) + \frac{n_1 + n_1}{n_1 n_1}$

$\frac{n_1^r + n_1^r + n_1^r + 1}{n_1 n_1}$

$a - r = \frac{1}{r} = \frac{r}{r}$

$y = x^r - \frac{1}{r} n - \frac{r}{r}$

5) $\sqrt{x} + n = r = y$

$(x^r + \frac{1}{x^r} + 1) (x^r - 1) = r + 1$

$x^r - \frac{1}{x^r} = r + \frac{r+1}{x^r}$

$x^r - 1 = r + r$

$x^r - r + r - 1 = 0$

$x^r = 1 + \sqrt{r}$ $\frac{1}{x^r} = 1 - \sqrt{r}$

$y^r - r y - 1 = 0$

x_1

x_2

$y = 1 \pm \sqrt{r}$

$x_1 + x_2 = r$

6) $r n^r - a n + r = 0$

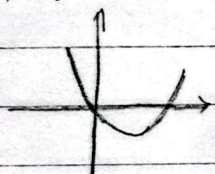
α, β, γ $r \alpha^r = \frac{r}{\alpha}$ $\alpha^r = \frac{r}{\alpha}$ $\alpha = \frac{r}{\alpha^r}$

$S = f \alpha = a$

$r \times \frac{r}{\alpha} = \frac{r}{\alpha}$ $a = 1$

$r \times \frac{r}{\alpha} = \frac{r}{\alpha}$ $a = -1$

7) $y = a n^r + (r + r a) x$



$\Delta > 0$ $a > 0$ $a > 0$

$\frac{-b}{a} > 0$ $\frac{-r - r a}{a} > 0$

$\Delta > 0$

$\Delta > 0$

$\frac{-r}{r} = -1$

$\Delta > 0$



مربعات

slip

8) $y = nx + m - x$

$y = -nx - m + b$

$\frac{r}{-1} = \frac{-a}{1} \rightarrow a = r$

$y = -nx - m + b = 1 \rightarrow -nx - m + b = 0 \begin{cases} m = 1 \\ n = -r \end{cases}$

$y = -(n-1)(n+r) + 1 = -nx - m + b \rightarrow b = r$

$ab = r$

9) $rx + m + b = 0$

$\frac{b}{r} = \frac{a}{1} = 1 = \frac{-a}{r} \rightarrow a = -r$

$rx + m + b = 0$

$\frac{a}{r} \times \frac{r}{1} = \frac{b}{1} \rightarrow \frac{a}{r} = \frac{b}{1}$

$\frac{a}{r} \times \frac{r}{1} = \frac{b}{1}$

$a \times \frac{r}{1} = \frac{b}{1} \rightarrow a = \frac{b}{r}$

$b = -r \times \frac{a}{r}$

$b = -1 \times \frac{a}{1}$

10) $x^2 + m - r = 0 \quad x^2 + 4m + n = 0 \quad (m+1)(m+5)$

$x^2 + 4x + m = 0 \quad m = -x^2 - 4x \rightarrow \text{D}$

$m = \frac{x^2 + 4x}{r} \rightarrow m = 4$

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

$-r(x^2 + 4x) = x^2 + 4x$

$r = -1 \rightarrow \boxed{r}$

$x = 0 \rightarrow x = -4$

$x = -4$

$(x+5)(x-r) = 0$

$\boxed{5, r}$