

Subject.

Day. Month. Year.

Year 2017

Class 12

Maths

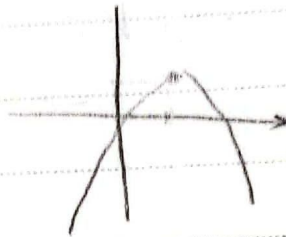
$$1) S \begin{cases} x = \frac{1}{4} \\ y = \frac{1}{-11} \end{cases}$$



Focus

(1)

$$11) S \begin{cases} x = \frac{1}{4} = 1 \\ y = \frac{14}{\epsilon} = \epsilon \end{cases}$$



Focus

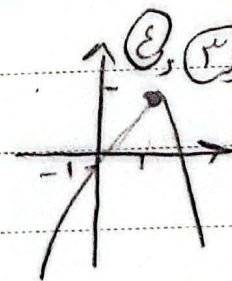
(2)

$$12) S \begin{cases} x = \frac{2}{\epsilon} \\ y = \frac{2 \cdot 2 - 14}{-11} = \frac{9}{-11} \end{cases}$$



(3, 4, 1) Focus

$$13) S \begin{cases} x = \frac{1}{4} = 1 \\ y = \frac{14 - \epsilon}{+ \epsilon} = 1 \end{cases}$$



(5, 4, 1) Focus

$$\alpha + \beta = 1$$

$$\alpha - \beta = \sqrt{1 + 11} = \sqrt{12}$$

(3)

$$\alpha \cdot \beta = -1$$

$$14) \frac{\alpha + \beta}{\alpha - \beta} = \frac{1}{\sqrt{12}} = \frac{\sqrt{12}}{12}$$

$$15) \alpha^2 + \beta^2 = S^2 - 4P = 1 + 4 = 5$$

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$$1) \alpha^r + \beta^r, S^r - r p S = 1 + q = 1.$$

$$2) \alpha^r - \beta^r = (\alpha - \beta)^r + r \alpha \beta (\alpha - \beta) = (\sqrt{11})^r - 9\sqrt{11}$$

$$11^r \sqrt{11} - 9\sqrt{11} = \varepsilon \sqrt{11}$$

(E)

$$a = \varepsilon \quad \text{---} \quad a^r - \varepsilon a <$$

$$a(a - \varepsilon) <$$

$$a \in (0, 1]$$

$$\begin{array}{c} \varepsilon \\ + \quad | \quad - \quad | \quad + \end{array}$$

$$r a^r - 1 r a - a = .$$

(D)

$$S = \varepsilon$$

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

$$r \alpha^r - 1 r \alpha = a$$

$$\alpha^r - r \alpha = \frac{a}{r}$$

$$\alpha^r + \beta^r + \sqrt{\alpha^r - \varepsilon \alpha} = v$$

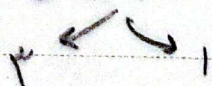
$$14 + \frac{r a}{r} + \frac{a}{r} = v$$

$$a = -9$$

$$r a^r - 1 r a + q = .$$

$$r (a - \varepsilon a + r) = .$$

$$\frac{-9}{+r} = -r$$



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(4)

$$\frac{r \cdot a + r^2 + v - r \cdot a}{r} = b$$

$$a = b$$

$$a = r \rightarrow \begin{pmatrix} r & 0 \\ 1 & 0 \end{pmatrix} \begin{pmatrix} v & a \\ 0 & 0 \end{pmatrix} X$$

$$a = r \rightarrow \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} \begin{pmatrix} r & 1 \\ 0 & 0 \end{pmatrix} \sqrt{\begin{matrix} \text{row} \\ \text{col} \\ \text{row} \\ \text{col} \end{matrix}}$$

$$\begin{matrix} v - r \cdot a > 0 & v > r \cdot a \\ v > r \cdot a & \end{matrix} \rightarrow \begin{matrix} r & r \\ 1 & 1 \end{matrix} \begin{matrix} r & 1 \\ 0 & 0 \end{matrix} \rightarrow \begin{matrix} \text{row} \\ \text{col} \\ \text{row} \\ \text{col} \end{matrix}$$

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

$$14a + r = 1 \quad a = -\frac{1}{14}$$

$$-\frac{1}{14} a^r + \frac{10}{14} a - \frac{r}{14} + r = \frac{-a^r}{14} + \frac{a}{14} - \frac{1}{14}$$

$$\left[-\frac{1}{14} \rightarrow b \right]$$

$$a \cdot r - a \cdot n - b = \dots \quad \begin{matrix} a + r = 1 \\ \alpha \beta = \frac{b}{a} \end{matrix} \quad (\checkmark)$$

$$\epsilon \cdot \beta^r + r = \alpha^r - r \cdot \beta = \dots$$

$$r \cdot \beta^r + r \cdot \beta^r + r \cdot \alpha^r - r \cdot \beta = b + r \cdot \left(1^r + r \cdot \frac{b}{a} \right)$$

$$\frac{r \cdot b}{a} + \frac{\epsilon \cdot b + r \cdot a}{a} = 14$$

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$$r \cdot b + \epsilon \cdot b + r \cdot a = 1/a$$

$$r \cdot b + r \cdot a = \dots$$

$$r \cdot b = -a$$

$$r \cdot b + a = \dots$$

$$\frac{\sqrt{a^2 - \epsilon a b}}{|a|} = \frac{\sqrt{\epsilon \cdot b^2 + 1 \cdot b r}}{r \cdot b} = \sqrt{\frac{r + b r}{r \cdot b}} = \sqrt{\frac{\epsilon}{a}}$$

$$\frac{\epsilon \sqrt{a}}{a}$$

(1)

$$S = \frac{-\delta + 1}{r} = -r$$

$$\alpha (n+r)^r - \frac{1}{r} \xrightarrow{(\text{os } \frac{\epsilon}{r})} \epsilon a - \frac{1}{r} = \frac{\epsilon}{r}$$

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

$$\beta \rightarrow \left[\frac{1}{r} (n+r)^r - \frac{1}{r} = \frac{1}{r} - \frac{1}{r} = \epsilon \right]$$

α	β
+	-
+	+

a) .

(9)

$$\alpha + \beta = -r$$

$$\alpha \cdot \beta = a$$

$$r \cdot \epsilon a > \dots \quad 1 > a \Rightarrow 1 > a > \dots$$

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$$-9 \pm \sqrt{9-4a} \rightarrow r = \sqrt{9-a}$$

$$r(\alpha^r + \beta^r) + \alpha^r = \sqrt{9-4a} + \alpha^r = \sqrt{9-4a} + 9 + 9 - a + 4\sqrt{9-a} = 18\sqrt{9-a}$$

$$r(\alpha^r + \beta^r) + \alpha^r = \sqrt{9-4a} + \alpha^r = \sqrt{9-4a} + 9 + 9 - a + 4\sqrt{9-a} = 18\sqrt{9-a}$$

$$r(\alpha^r + \beta^r) + \alpha^r = \sqrt{9-4a} + \alpha^r = \sqrt{9-4a} + 9 + 9 - a + 4\sqrt{9-a} = 18\sqrt{9-a}$$

$$\sqrt{\frac{1}{\alpha}} + \sqrt{\frac{1}{\beta}} = \frac{\sqrt{\alpha}}{\alpha} + \frac{\sqrt{\beta}}{\beta} = \frac{1}{\sqrt{\alpha}} + \frac{1}{\sqrt{\beta}} = \frac{1}{r}$$

$$\frac{\beta\sqrt{\alpha} + \alpha\sqrt{\beta}}{\beta\alpha\frac{1}{r}} = \frac{1}{r} \Rightarrow \beta\sqrt{\alpha} + \alpha\sqrt{\beta} = \frac{1}{r^2}$$

$$\frac{r\alpha}{r^2 r} = \beta^r \alpha + \alpha^r \beta + r\alpha\beta\sqrt{\alpha\beta}$$

$$\frac{r\alpha}{r^2 r} = \beta\alpha(\alpha + \beta + r\sqrt{\alpha\beta})$$

$$\frac{r\alpha}{r^2} - \frac{1}{r^2} = \alpha + \beta$$

$$\frac{1}{r^2} = \alpha + \beta$$

$$\frac{m+1}{r^2} = \frac{1}{r^2}$$

$$m+1 = 1 \Rightarrow m = -1$$

$$-m^r + r^m + r^s \quad p_s = -r$$