

موضوعات C

المعادلات

في خط

19

الف)  $3x - y = 9$   $\times 2 \rightarrow 6x - 2y = 18$

$x + 2y = -5$   $x + 2y = -5$

$x = 2 \leftarrow 6x = 12$

$y = -4$

$\frac{x}{y} = -\frac{2}{4}$

ب)  $\frac{1}{x} - \frac{1}{y} = -1$   $\times -d \rightarrow \left\{ \begin{array}{l} -\frac{d}{x} + \frac{d}{y} = d \\ \frac{d}{x} - \frac{d}{y} = -d \end{array} \right.$

$\frac{d}{x} - \frac{d}{y} = -d$   $\frac{d}{x} - \frac{d}{y} = -d$

$\frac{-d}{y} = -d$

$\frac{1}{y} = -1 \Rightarrow y = -1$

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

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

Subject.....

Day..... Month..... Year.....

$$a + 1 = -2$$

$$a = -3$$

$$\frac{-4}{2}a + 2b = -4$$

$$b = 0$$

(2)

9

$$m^2 - 2m = -2$$

$$m^2 - 2m + 2 = 0 \Rightarrow m = 1 \pm \sqrt{1-2} = 1 \pm i$$

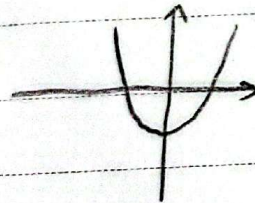
$$(m+1, 4) \neq (2, 4)$$
  
$$(1, 4) \neq (2, 4)$$

$$((m+1), 4) \neq (2, 4)$$
  
$$(1, 4) \neq (2, 4)$$

(3)

9

$$y = x^2 - a$$



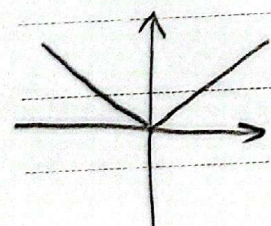
✓ (ب)



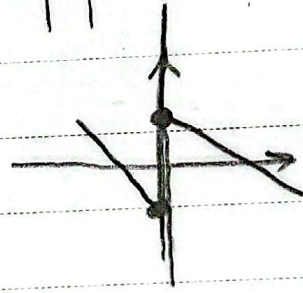
X (ا)

(5)

9

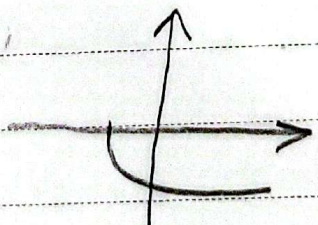


✓ (د)  
 $y = |x|$



X (ج)

ا)  $y = -\sqrt{x+1}$



(1) (د)

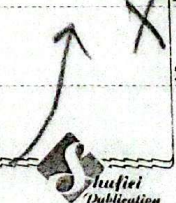
$$y_1 = -y_2$$

ب)  $x = \frac{y}{\sqrt{1-y^2}}$

$$\frac{y_1^2}{1-y_1^2} = \frac{y_2^2}{1-y_2^2}$$

$$y_1^2 - y_2^2 y_1^2 = y_2^2 - y_1 y_2^2$$

$$y_1 (y_1 - y_2) = y_2 (y_2 - y_1)$$



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(4)

$$|y| = n \quad \text{if } n=1 \quad \times$$
$$y = \pm 1$$

✓

$$b) \quad y^r + r y^{r-1} + r y = -n^r - n$$

$$y_1^r + r y_1^{r-1} + r y_1 + 1 = y_r^r + r y_r^{r-1} + r y_r + 1$$

$$(y_1 + 1)^r = (y_r + 1)^r$$

$$y_1 + 1 = y_r + 1$$

$$y_1 = y_r$$

(2)

$$\frac{(n+r)^r + 1}{(n+r)^r + r} = f(n)$$

$$\left. \frac{r+1}{r+r} = \frac{\varepsilon}{r} = \frac{r}{r} \right]$$

$$a^r + a n + b = r a - a$$

(1)

$$-1 - a + b = -r - a$$

$$b = -r$$

$$a \Rightarrow -1 - a - r = -\varepsilon$$

$$a = +1$$

Subject.....

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$$a^k + m - r - k a + 1 = \dots$$

$$m^k - k m + 1 = \dots$$

$$m^k + m^r - m^r - k m - 1 = \dots$$

$$m^k (m+1) - (m+1)^k = (m+1)(m^k - m - 1)$$

□ I = ...

$$a + b = r a$$
$$b = a$$

$$a - \cancel{r} b + 1 = r a$$
$$1 = r a$$

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

$$f(m) = m = \frac{r m^r - a m + c + 1}{b m + r}$$

$$m (b m + r) = r m^r - a m + c + 1$$

$$b m^2 + r m \Rightarrow a = -r$$
$$b = r$$
$$c = -1$$

a + b + c = 0

$$u = \frac{y_1}{\sqrt{1 - y_{1,r}^2}}$$

$$\frac{y_1}{\sqrt{1 - y_{1,r}^2}} = \frac{y_2}{\sqrt{1 - y_{2,r}^2}}$$

صحت سوال

$$u = \frac{y_2}{\sqrt{1 - y_{2,r}^2}}$$

$$\frac{y_{1,r}^2}{1 - y_{1,r}^2} = \frac{y_{2,r}^2}{1 - y_{2,r}^2} \rightarrow y_{1,r}^2 y_{2,r}^2 = y_{2,r}^2 - y_{1,r}^2 y_{2,r}^2$$
$$y_{1,r}^2 = y_{2,r}^2 \rightarrow |y_{1,r}| = |y_{2,r}|$$

مضرب صاف + ولا صاف  
صفت صاف

$$y_1 = y_2$$