## یاسخ ریاضی

-١

$$\begin{vmatrix}
7 & \stackrel{\times \dot{\epsilon}}{\rightarrow} & \Lambda & \stackrel{+1}{\rightarrow} & 9 \\
9 & \stackrel{+1}{\rightarrow} & 10 & \stackrel{+}{\rightarrow} & 0
\end{vmatrix}$$

۲\_

$$y = r - \sqrt{rx} \rightarrow r - \sqrt{rx + r}$$

$$\rightarrow -r + \sqrt{rx + r} \rightarrow -r + \sqrt{rx + r} + \circ = \sqrt{rx + r} + r$$

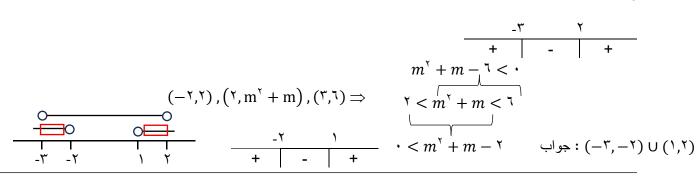
$$\sqrt{rx + r} + r = \frac{r}{r} \Rightarrow \sqrt{rx + r} = \frac{r}{r} \Rightarrow rx + r = \frac{r}{\epsilon} \Rightarrow rx = \frac{r}{\lambda}$$

-٣

حاصل ضرب 
$$=-\frac{b}{1}=$$
 حاصل ضرب  $= -\frac{b}{1}=$ 

$$f(\Upsilon) = \Lambda + \Upsilon + \Upsilon a - \Upsilon = \Upsilon \Rightarrow a = -\Upsilon$$

٤

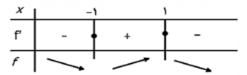


٥

(1)

$$f`(x) = - \mathbf{F} x^{\mathsf{Y}} + \mathbf{F} = ullet \Rightarrow x = \pm \mathbf{I}$$

پس تابع در بازه [۱٫۱] صعودی اکید است.



گزینه درست: ۰

سوال ۳ گزینه درست: ۰

$$egin{aligned} y = -x^{\mathbf{Y}} - \mathbf{Y} & \stackrel{x \geq ullet}{\longrightarrow} x = \sqrt{-y - \mathbf{Y}} \ \Rightarrow f^{-1}\left(x
ight) = \sqrt{-x - \mathbf{Y}} \ D_{f^{-1}} = \left(-\infty, -\mathbf{Y}
ight] \end{aligned}$$

سوال ۴ گزینه درست: ۰

 $f(g(x)) = \underbrace{ exttt{r}\sqrt{g(x)} + exttt{r}}_{ullet/ exttt{r}ullet}$ 

$$\underbrace{\mathbf{P} x^{\mathbf{p}} - \mathbf{F} = \mathbf{P} \sqrt{g(x)} + \mathbf{f}}_{\bullet/\mathbf{f}\Delta} \quad \Rightarrow \underbrace{\sqrt{g(x)} = x^{\mathbf{p}} - \mathbf{f}}_{\bullet/\mathbf{f}\Delta} \quad \Rightarrow \underbrace{g(x) = (x^{\mathbf{p}} - \mathbf{f})^{\mathbf{p}}}_{\bullet/\mathbf{f}\Delta}$$

سوال ۵ گزینه درست: ۰

روش اول:

$$D_{f^{-1}of} = D_{f} = \underbrace{\left[ \mathbf{Y}, +\infty 
ight)}_{ullet / \mathbf{Y} \Delta}$$

روش دوم:

## پاسخ زبان

\(\frac{1}{2}\) - distinguished \(\frac{1}{2}\) - inspiration

۲- distinguished ٤- shouted

۱۲- advice

15-c 15-d 10-a 17-b

۱۷- is / was made

19- was taught Y •- was invented / has been invented

Y)- A lot of workers have been employed during the last five years.

The robber was found by the police last week.

۲۳- The little girl feeds the pigeons everyday. Pigeons are fed everyday.