

19, 7, 5

آرمینا ایران پور

$$a f(u) > 0$$

(1) از 2 تا 5 هم مثبت است و هم 1 پس $f(u)$ مثبت می شود.
از 5 تا 0 هم مثبت است و هم 1 پس $f(u)$ مثبت می شود.

$$D_f = [2, 5] \cup [5, 0]$$

(2) ✓

$$\frac{-a}{f(u)} > 0 \Rightarrow \frac{a}{f(u)} < 0 \Rightarrow f(u) \neq 0$$

(2)

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پس باید دنبال 0 و 1 هایی باشیم که منفی
تولید می کنند یعنی از بازه 0 تا 2 و 2 تا 3 تا 0.

$$D_f = [0, 2] \cup [2, 3] \cup [3, 0]$$

$$-f(r) = r - 4 + r = 2$$

(3)

$$f(r) = -2$$

(2) ✓

$$f(u) + r = a^2 - 3a + r$$

$$f(u) = a^2 - 3a \Rightarrow f(-2) = r + 4 = 10$$

$$f(1) \Rightarrow 1(1) + 3 = 5 \text{ و } f(5) \Rightarrow 5 - \sqrt{9} = 2$$

(4)

$$f(5) = 2 \text{ و } f(r) = 1(r) + 3 = 5 \Rightarrow \boxed{5 + 2 = 7}$$

(2) ✓

$$f(5) - f(1) = 1 \Rightarrow f(1) = -4$$

(5)

$$f(5) = 2$$

$$f(1) = a - b + 2$$

(2) ✓

$$a - b + 2 = -4 \Rightarrow \boxed{a - b = -6}$$

$$\frac{r \cdot f(r) + f(-1) \cdot 5}{f^2(r)} = \frac{7}{1} = 7$$

-6

(2) ✓

DATE

Ka

SUBJECT:

-A

$$\frac{\cancel{K} P(\cancel{K}) - \cancel{r} P(\cancel{r})}{P(\cancel{r})} = \left(\frac{\cancel{K}}{\cancel{r}} \right) \quad \checkmark$$

(P) ✓

$$\frac{P(\cancel{P}(\cancel{K})) - P(\cancel{P}(\cancel{r}))}{P(\cancel{r}) - \cancel{r}} = \frac{0}{K} = 0 \quad \checkmark$$

(P) ✓

$$\frac{\cancel{K} + \cancel{K} - \cancel{K} \cancel{K} + \cancel{K} \cancel{K} - \cancel{A} + \cancel{A}}{\cancel{K} + \cancel{K} - \cancel{K} \cancel{K} + \cancel{K} \cancel{K} - \cancel{A} + \cancel{A}} = \frac{\cancel{A}}{\cancel{K}} = \cancel{P} \Rightarrow \frac{\cancel{K} + \cancel{A} + \cancel{A}}{\cancel{K} + \cancel{A} + \cancel{A}} = \left(\frac{\cancel{P}}{\cancel{V}} \right) \quad \checkmark$$

(P) ✓

$$(P(\sqrt{u}))^r \Rightarrow (u + \frac{1}{u})^r \Rightarrow u^r + \frac{1}{u^r} + r$$

$$P(u) = u^r + \frac{1}{u^r} \Rightarrow (P(\sqrt{u}))^r - P(u) = \cancel{u^r} + \frac{1}{\cancel{u^r}} + \cancel{r} - \frac{1}{\cancel{u^r}}$$

(P) ✓

(P)