

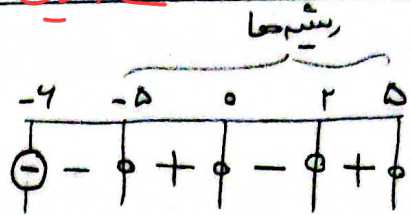
نام و نام خانوادگی: آبرار میک زاده . پاسنامه تشریحی تکلیف شماره: ۷. کلاس: دهم بهار A

پیدا کردن

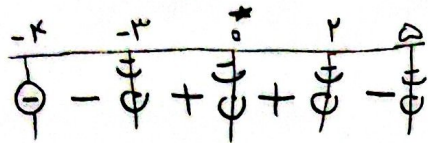
$$y = \sqrt{x f(x)} \rightarrow x \times f(x) \geq 0$$

✓

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



$$y = \sqrt{\frac{-x}{f(x)}} \rightarrow \frac{-x}{f(x)} \geq 0 \text{ و } f(x) \neq 0 \rightarrow -3, 0, 2, 5$$



$$D_f = (-3, 0) \cup (0, 2)$$

$$\text{تعداد اعداد صحیح} \rightarrow (-2) (-1) (1) \rightarrow 3 \text{ عدد}$$

✓

$$f(x) - 2f(2) = x^2 - 3x + 4 \rightarrow f(2) - 2f(2) = 2^2 - 3 \times 2 + 4$$

$$-f(2) = 2 \rightarrow f(2) = -2$$

$$f(x) = 2f(2) + x^2 - 3x + 4 \rightarrow f(x) = x^2 - 3x$$

$$f(-2) = 4 + 6 = 10$$

✓

$$f(5) = 5 - \sqrt{5+4} = 2 \rightarrow f(2) = 2 \times 2 + 3 = 7$$

$$f(1) = 2 \times 1 + 3 = 5 \rightarrow f(5) = 2$$

$$f(f(5)) + f(f(1)) = 7 + 2 = 9$$

✓

$$a(x-1)^2 - b(x-1) + 2 - (ax^2 - bx + 2) = 4x + 2$$

$$ax^2 - 2ax + a - bx + b + 2 - ax^2 + bx - 2 = 4x + 2$$

$$-2ax + a + b = 4x + 2$$

$$\rightarrow -2ax = 4x \rightarrow -2a = 4 \rightarrow a = -2$$

$$a + b = 2 \rightarrow b = 4$$

$$a - b = -2 - 4 = -6$$

$$f(r) = 9 - 9 + 1 = \textcircled{1} \quad f(-1) = 1 + 3 + 1 = \textcircled{5} \quad f(r) = r - 9 + 1 = \textcircled{-1}$$

$$\frac{rf(r) + f(-1)}{f'(r)} = \frac{r \times 1 + 5}{(-1)^r} = \textcircled{v}$$

✓

4

$$f(r) = r^3 + 1 = \textcircled{13}$$

$$f(-r) = r^2 = \textcircled{4}$$

$$f(r) = r^3 + 1 = \textcircled{v}$$

$$\frac{rf(r) - rf(-r)}{f(r)} = \frac{r \times 13 - r \times 4}{v}$$

$$= \textcircled{\frac{9}{v}}$$

✓

v

$$f(r) = 1 \rightarrow f(1) = \textcircled{4} \quad | \quad f(r) = 2 \rightarrow f(r) = \textcircled{9}$$

$$f(1) = \textcircled{4}$$

$$\frac{f(f(r)) - f(f(r))}{f(1) - r} = \frac{4 - 9}{4 - 2} = \textcircled{0} \text{ منفر}$$

✓

8

$$f(\sqrt{r} - r) = \frac{r + r - r\sqrt{r} + r\sqrt{r} - 1 + 9}{r + r - r\sqrt{r} + r\sqrt{r} - 1 + 9} = \frac{1}{r} = r$$

$$f(r) = \frac{r + 1 + 9}{r + 1 + 9} = \frac{r}{14}$$

$$\rightarrow f(f(\sqrt{r} - r)) = \textcircled{\frac{r}{14}}$$

✓

9

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

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

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

✓

10