

1, 2, 3, 4

تکلیف حل شده (موضوع)

روز و ماه و سال

Subject

Day Month Year

a^2 + 2a = a^2 - 4 -> a = (-2)

1

(f+a)/(c-b) = 2, c+b = 3 -> b = (-1)

2

(f+a)/a = 2 -> a = 1 -> f(x) = (x+a)/(x-2b) f(1) = (1+1)/(1-2) = 2

2 - a + b = 0 -> 2\*2 + c\*a = 2 - a

3

2\*2 + 2a + b = 0 a = (-4) -> b = (-1)

5

f(x) = (x+1)/(2x-4-1) -> f(1) = (1+1)/(2-5) = -2/3

{ a^2 + 4b = 0, -f - a + b = 0 } b = a + f -> a^2 + 4a + 4c = 0 -> (a+2)^2 = 0

4

a = (-2) -> b = (-2)

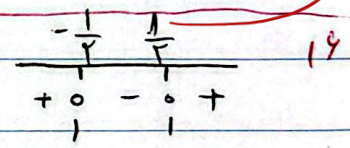
a + b = (-4)

Delta < 0 -> m^2 - 4 < 0 -> (-2, 2) = m

1, 2, 3, 4

f - 1/x^2 >= 0 -> (-infinity, -1/2] U [1/2, +infinity)

5



m\*x^2 + 2m\*x + 1

m > 0

Delta <= 0 -> 4m^2 - 4m <= 0 -> [0, 1] = m

(x m = 0 -> y = 1)

5

[0, 1] = m

AVANGE

$$\frac{f(x)-1}{x-1}, x \neq 1 \rightarrow (x-1) \neq 0 \rightarrow x \neq \frac{1}{r} \rightarrow a = \frac{1}{r} \quad \text{④}$$

$$x = \frac{1}{r} \rightarrow g\left(\frac{1}{r}\right) = r, f\left(\frac{1}{r}\right) = r + k \rightarrow r = r + k \rightarrow k = 0$$

$$\Rightarrow a + k = \frac{1}{r} + 0 = \frac{1}{r}$$

$$rx - r = rx + b \rightarrow b = (-r) \quad \text{⑤}$$

$$x = -\frac{r}{r} \left\{ \begin{array}{l} f\left(-\frac{r}{r}\right) = -ra + r \rightarrow -ra + r = -c \rightarrow a = r \\ g\left(-\frac{r}{r}\right) = (-c) \rightarrow a + b = r - (-r) = \underline{2r} \end{array} \right.$$

$$x = r + \left\{ \begin{array}{l} f(r) = ra^r + ra \rightarrow ra^r - ra = f \rightarrow a^r + a - r = 0 \\ g(r) = f \quad (a+r)(a-1) = 0 \\ \underline{a = -r, 1} \end{array} \right. \quad \text{⑥}$$

در این صورت  $x=1$  می توانیم درجه را پایین بیاوریم

$$(x-1)^2 = x^2 - 2x + 1 \quad m = -2$$

$$x - 2 \text{ ی } (-2, 2) \rightarrow [-2, 2]$$