

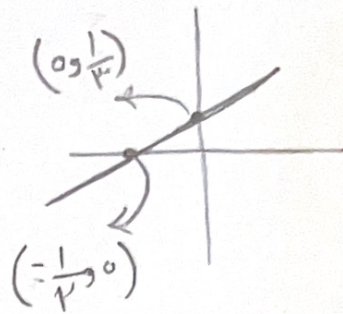
٢٠ اقرين

سارا عبد الهادي

$$2y = 3n - 1$$

$$y = \frac{3n - 1}{2}$$

$$f^{-1}(n) = \frac{2}{3}n + \frac{1}{3}$$



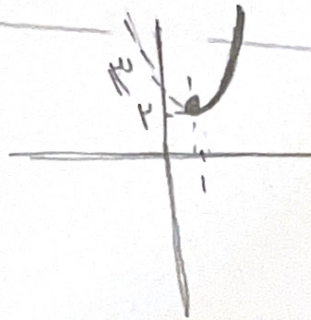
(1)

$$S = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$$

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الف) $y = x^2 - 2x + 3$

$$(x-1)^2 + 2$$



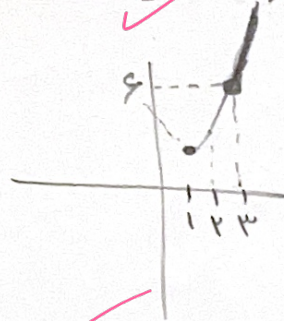
(2)

ب) $y = x^2 - 2x + 3$

$$x = (y-1)^2 + 2$$

$$1 + \sqrt{x-2} = y$$

$$x \in [2, +\infty)$$



ب)

$$y = x^2 - 2x + 3$$

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$$f'(x) = 1 + \sqrt{x-2}$$

$$x \in [2, +\infty)$$

$$2n - \sqrt{14 - 15n + 4n^2}$$

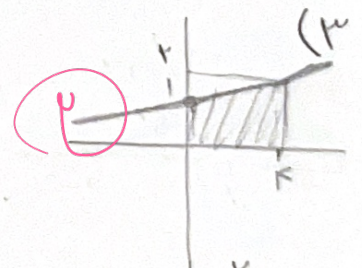
$$2n - 2\sqrt{x^2 - 4n + 4} = 2n - 2|x-2|$$

$$x \geq 2 \quad 2x - 2n + 4 = 4$$

$$x \leq 2 \quad 2n + 2n - 4 = 4n - 4 \quad \sqrt{(+\infty, 2]}$$

$$f^{-1}(n) = \frac{2n+4}{4} = \frac{n}{2} + 1$$

$$D_{f^{-1}} = (-\infty, 4]$$



$$S = \frac{(1+2) \times 4}{2} = 4$$

$$y_1 = \frac{x_1}{\sqrt{x_1^2 - \omega}}$$

$$y_1 = \frac{x_1}{\sqrt{x_1^2 - \omega}} \quad y_1 = y_1 \rightarrow x_1 = x_1 \quad (f)$$

$$\frac{x_1}{\sqrt{x_1^2 - \omega}} = \frac{x_1}{\sqrt{x_1^2 - \omega}} \Rightarrow \frac{x_1^2}{x_1^2 - \omega} = \frac{x_1^2}{x_1^2 - \omega} \Rightarrow \cancel{x_1^2} \cancel{x_1^2} - \omega \cancel{x_1^2} = \cancel{x_1^2} \cancel{x_1^2} - \omega \cancel{x_1^2}$$

(2)

$$x_1^2 = x_1^2 \Rightarrow x_1 = x_1 \xrightarrow{x_1 y} \cancel{x_1} = \cancel{x_1}$$

$$x = \frac{y}{\sqrt{y^2 - \omega}} \Rightarrow x^2 = \frac{y^2}{y^2 - \omega}$$

$$\cancel{x^2 y^2} - \omega \cancel{x^2} = y^2 - \omega x^2 = y^2 (1 - x^2)$$

$$y = \sqrt{\frac{-\omega x^2}{1 - x^2}}$$

Sliding
n=2

$$F - \Lambda + K = -F + K$$

$$-F + \Lambda + K = \Lambda + K$$

$$\Lambda + K \leq -F + K$$

$$K \leq -\Lambda$$

$$K \leq -\Lambda$$

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n > 0
n < 0

$$f_n + n = f_n$$

$$f_n - n = f_n$$

$$f^{-1}(n)$$

$$n > 0 \quad \frac{1}{f} n$$

$$n < 0 \quad \frac{1}{f} n$$

(4)

$$\frac{\frac{1}{f} + \frac{1}{f}}{f} = a = \frac{w}{\Lambda}$$

$$f(1) = f \rightarrow f^{-1}(f) = 1$$

(2)

$$g(f) = \frac{w}{f \Lambda} x f + f b = 1$$

$$f b = -\frac{1}{f} \quad b = -\frac{1}{\Lambda}$$

$$a b = \frac{w}{\Lambda} \times \left(-\frac{1}{\Lambda}\right) = -\frac{w}{\Lambda^2}$$

$$\frac{r(r)+k}{r+m} = -1 \quad m = -r$$

$$x = \frac{r y + k}{y - r}$$

$$y n - r n = r y + k$$

$$-r n - k = y(r - n)$$

$$y = \frac{r n + k}{n - r}$$

(r)

$$f\left(\frac{r n + k}{n - r}\right) + \frac{r n + k}{n - r}$$

$$\frac{r\left(\frac{r n + k}{n - r}\right) + k}{\frac{r n + k}{n - r} - r} = \frac{\frac{r n + k + k n - r k}{n - r}}{\frac{r n + k - r n + r}{n - r}} = \frac{r n}{r} = n$$

$$(f \circ f^{-1})(n) = n \Rightarrow x + \frac{r n + k}{n - r} = \frac{r x + k}{x - r} \Rightarrow \frac{r x + k}{x - r} = x$$

$$r x + k = x^2 - r x \quad \boxed{x = -\frac{k}{r}}$$

$$x + \frac{r n + k}{n - r} = n \rightarrow \frac{r n + k}{n - r} = 0$$

$$f^{-1}(-r) = a$$

$$f(a) = -r$$

$$r - r a = a$$

$$x = \frac{a - r}{-r} = \frac{r - a}{r}$$

$$f(a) = r - g\left(\frac{r - a}{r}\right)$$

$$g\left(\frac{r - a}{r}\right) = r$$

$$g^{-1}(r) = \frac{r - a}{r}$$

$$r g^{-1}(r) + f^{-1}(-r) = \frac{r - a}{r} + a = r$$

(r)

$$y = \frac{+ \Delta x + 11''}{1+x}$$

(9)

$$\rightarrow \frac{\Delta (n-1) + 11''}{1+(n-1)} - 11'' = f(x) = \frac{11'' + 4}{n-1}$$

(10)

$$0 \Rightarrow x = \frac{11'' + 4}{y-1} \Rightarrow xy - x = 11'' + 4 \Rightarrow -x = y(11'' + 4)$$

$$\frac{-x-4}{1-x} = y \quad y = \frac{x+4}{n-1}$$

$$\frac{x+4}{n-1} = \frac{11'' + 4}{n-1}$$

$$x^2 + \Delta n - 4 = 11'' + 11'' - 11''$$

$$x^2 + 11'' - 4 = 0$$

$$\frac{-b}{a} = S = 11''$$

$$y = x + f[n]$$

$$x = y + f[y]$$

$$y = -f[y] + x$$

$$y = x - \frac{f[n]}{\Delta} = g(n)$$

$$f(n) - g(n) = x + f[n] - x + \frac{f[n]}{\Delta} = \frac{11'' + f[n]}{\Delta}$$

(10)

(11)