

$$a_n = 96$$

دنیالری هندسی

$$a_5 = 12$$

جملی اول و دنیالری هندسی

$$a_n = a_1 q^{n-1}$$

$$\frac{a_n}{a_5} = \frac{a_1 q^{n-1}}{a_1 q^{5-1}} = q^4 = \frac{96}{12} = 8$$

$$q^4 = 8 \Rightarrow q = 2$$

$$a_5 = a_1 q^{5-1} \Rightarrow 12 = a_1 \times 2^4 \Rightarrow a_1 = \frac{12}{16} = \frac{3}{4}$$

$$\frac{3}{4}, \frac{3}{2}, 3, 6, \dots$$

$$\frac{\tan \theta}{1 + \tan^2 \theta} = \frac{\sin \theta \cos \theta}{\frac{1}{\cos^2 \theta}}$$

$$\frac{\frac{\sin \theta}{\cos \theta}}{1 + \frac{\sin^2 \theta}{\cos^2 \theta}} = \frac{\frac{\sin \theta}{\cos \theta}}{\frac{\cos^2 \theta + \sin^2 \theta}{\cos^2 \theta}}$$

$$\frac{\frac{\sin \theta}{\cancel{\cos \theta}}}{\frac{1}{\cancel{\cos \theta} \cos \theta}} = \frac{\sin \theta \cos \theta}{1}$$

$$\sqrt[5]{49} = \sqrt[5]{7^2} = 7^{\frac{2}{5}} = 7^{\frac{2}{5}}$$

$$\sqrt[4]{\sqrt{2}} = \sqrt[4]{2^{\frac{1}{2}}} = 2^{\frac{1}{8}}$$

سوال: $x+y=10$ ، $xy=2$ (ب)

ضرب: $10 \cdot 2 = 20$

$$(x+y)^2 = (x+y)(x+xy+y) = 20$$

$$(x+y)^2 = x^2 + y^2 + 2xy = 20$$

$$x^2 + y^2 + 4 = 20 \rightarrow x^2 + y^2 = 16$$

||

$$\begin{aligned}
 n^2 + y^2 &= (n+y)^2 - \cancel{2ny} \\
 &= (n+y)^2 - 2ny \\
 &= (n+y)^2 - \underbrace{2ny}_{2ny}
 \end{aligned}$$

$$\begin{aligned}
 n^2 + y^2 &= (n+y)^2 - 2ny \\
 &= (n+y)^2 - \frac{2ny}{1} \cdot \frac{(n+y)}{(n+y)}
 \end{aligned}$$

$$\begin{aligned}
 1 \cdot (n+y)^2 - 2ny \cdot 1 &= \frac{1 \cdot (n+y)^2 - 2ny \cdot 1}{1} \\
 &= \frac{1 \cdot (n+y)^2 - 2ny \cdot 1}{1}
 \end{aligned}$$



$\sqrt{x+y} - \sqrt{x-y}$ ان بوجہ سے $\sqrt{x+y} + \sqrt{x-y} = 1$

$(a+b)(a-b) = a^2 - b^2$ ؟ حساب

$\left(\frac{\sqrt{x+y} + \sqrt{x-y}}{a} \right) \left(\frac{\sqrt{x+y} - \sqrt{x-y}}{a} \right)$

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

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

2

$$\frac{x | x+r |}{x}$$

$$x^r - \sum_{n+r} x^r$$

$$x^r - \sum_{n+r} = (n-1)(x^r)$$

	$-r$	0	1	r
x	-	-	+	+
$ x+r $	+	+	+	+
$(x-1)$	-	-	-	+
$(x-r)$	-	-	-	+
$P(x)$	-	-	+	-

$$(0, 1) \cup (r, +\infty)$$

$$f(n) = an + b$$

gio

$$y = an + b$$

$$\begin{bmatrix} x \\ 1 \end{bmatrix} \rightarrow \begin{bmatrix} -1 \\ 3 \end{bmatrix}$$

$$\left. \begin{aligned} 1 &= 1a + b \\ 3 &= -1a + b \end{aligned} \right\}$$

$$f(1) = 1$$

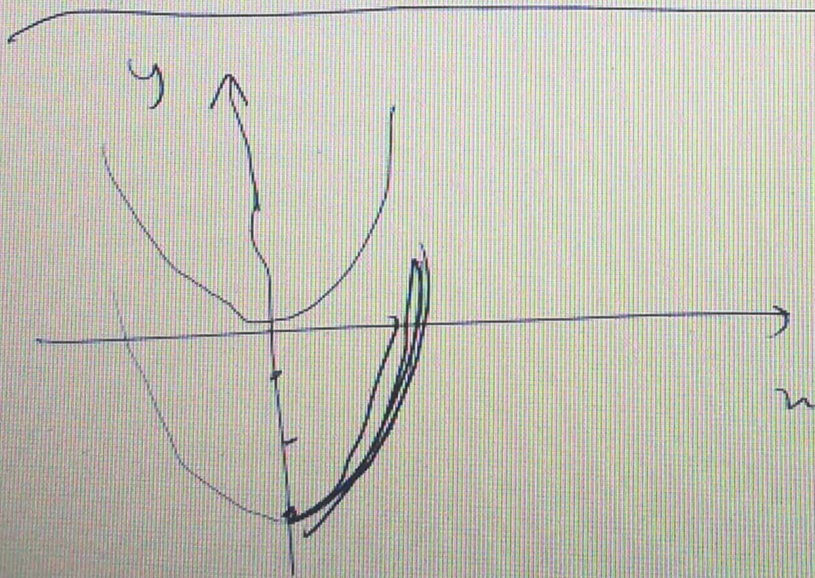
$$f(-1) = 3$$

$$1 - 3 = (1a + b) - (-1a + b)$$

$$a = -1, b = 3$$

$$-x = 1a$$

$$f(n) = -x + 3$$

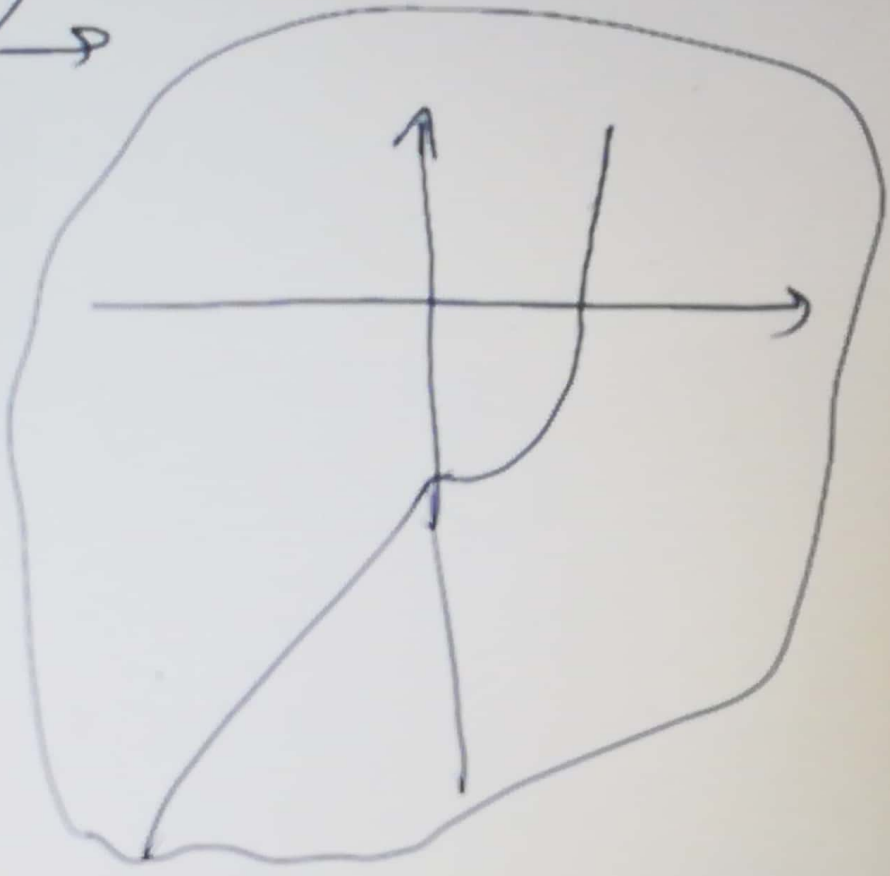


$$n > 0 \rightarrow n - 1$$

$$n < 0 \rightarrow n - 3$$



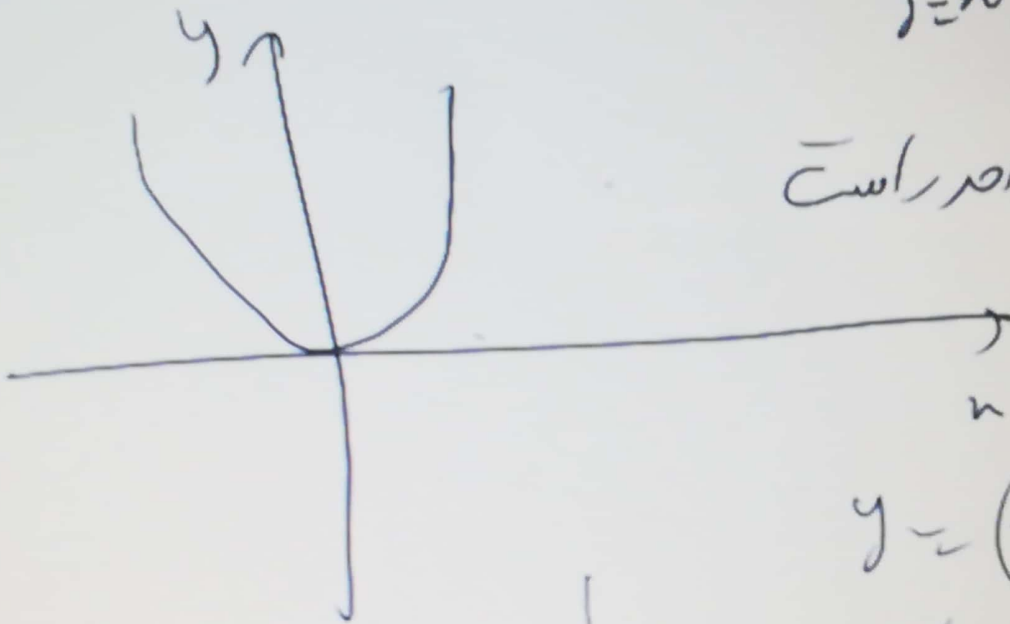
$$y = x^2 - 5x + 5$$



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

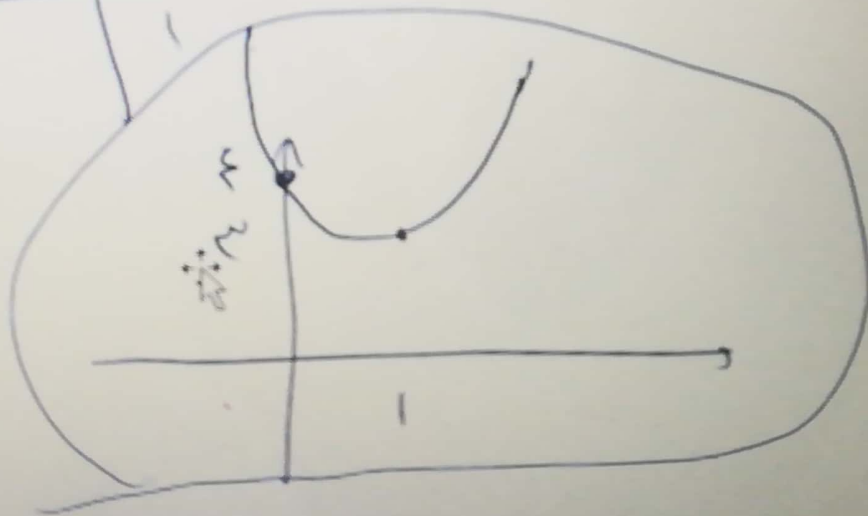
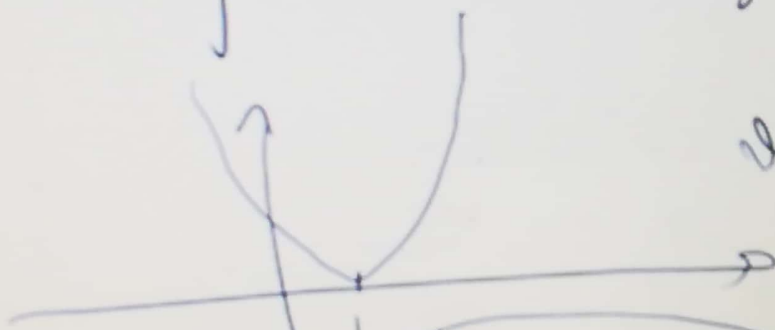
$$y = x^2 \rightarrow y = (x-1)^2$$

بکدام سمت

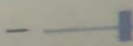


$$y = (x-1)^2 + 2$$

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Focus



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