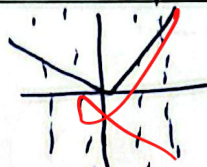


$$(19a) \text{ و } (19a^2 + 3) \Rightarrow 2a = a^2 + 3 \Rightarrow a^2 - 2a + 3 = 0$$

$$(a-1)(a-3) \Rightarrow a = 1 \text{ و } 3 \Rightarrow \text{اگر ۱ بخازیم جواب درست است! هر دو مقدار } a \text{ جواب میدهد!}$$

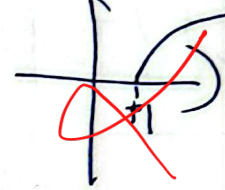
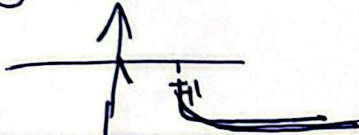
$$\text{جواب } \boxed{1} \Rightarrow (19a) \text{ و } (19a^2)$$

$$\text{تابع است. } \Rightarrow y = |x| \Rightarrow |y| = |x|$$



پایین صفر و بزرگ!

$$|y| + \sqrt{x-1} = 0 \Rightarrow |y| = -\sqrt{x-1} \Rightarrow \text{تابع است}$$



$$x=3 \Rightarrow |y-1|=1 \Rightarrow y=2 \text{ و } 0$$

$$x=0 \Rightarrow y(y^2-1) \Rightarrow y=0 \text{ و } 1 \text{ و } -1$$

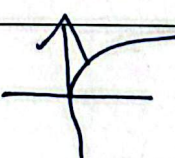
$$\sin^2 x + \cos^2 \frac{y}{2} = 1 \Rightarrow \sin^2 x + \cos^2 \frac{y}{2} = 1 \Rightarrow \sin^2 x + \cos^2 \frac{y}{2} = 1$$

$$x=0 \Rightarrow 2x \times y = 0 \Rightarrow y \rightarrow \text{بیشتر جواب}$$

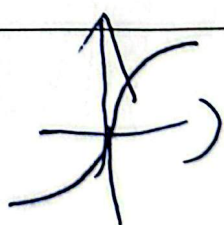
$$x^2 + |y-1| = x \Rightarrow x=1 \Rightarrow |y-1|=2 \Rightarrow y=3 \text{ و } -1$$

$$y^3 + 2x = 0 \Rightarrow y^3 + 2x_1 = 0 \Rightarrow y_1^3 = -2x_1 \Rightarrow y_1 = y_2 \Rightarrow y_1 = y_2$$

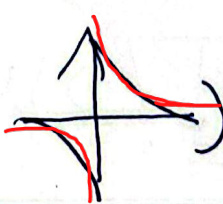
$$y = \sqrt{x}$$



$$y = \sqrt{x}$$

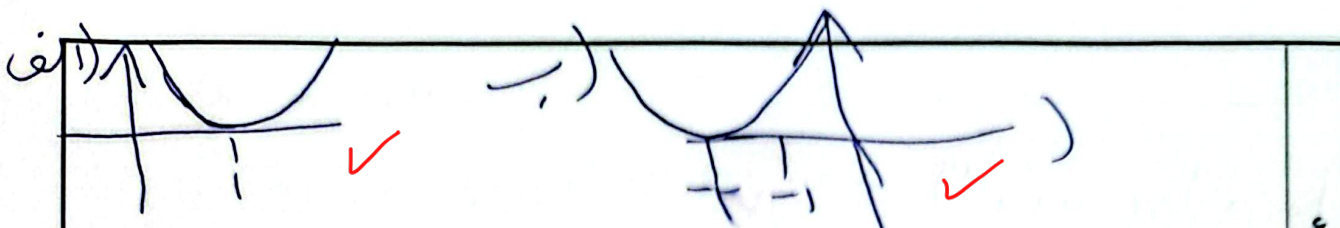


$$\frac{1}{x^2}$$

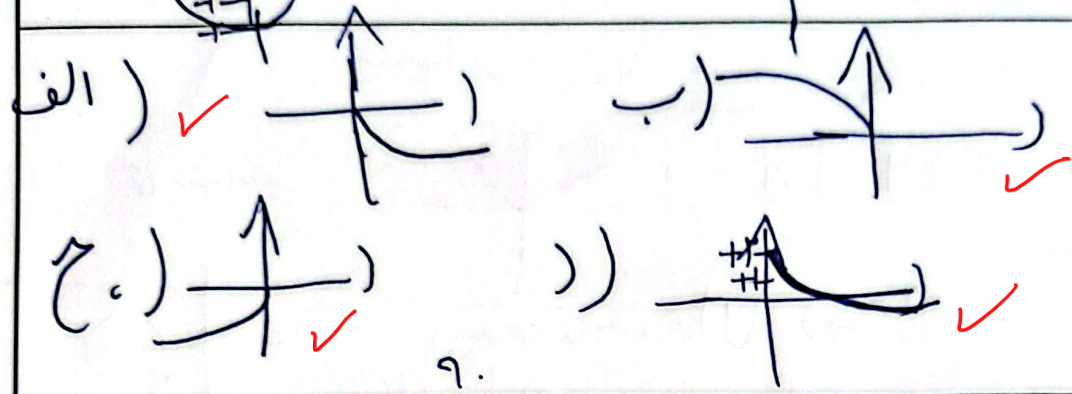
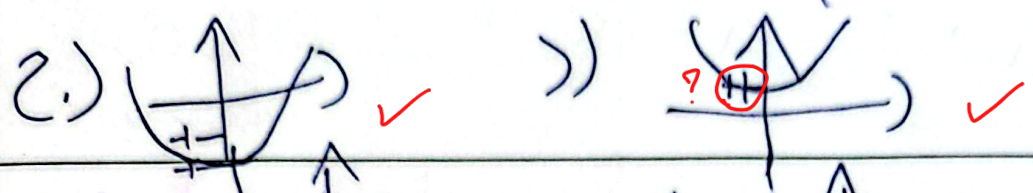


$$y = \frac{1}{x^2}$$

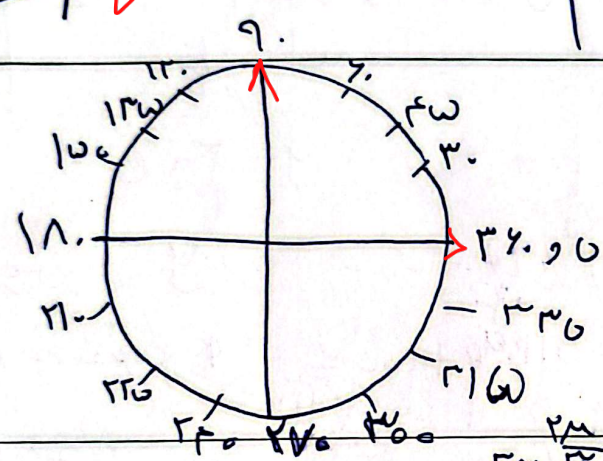




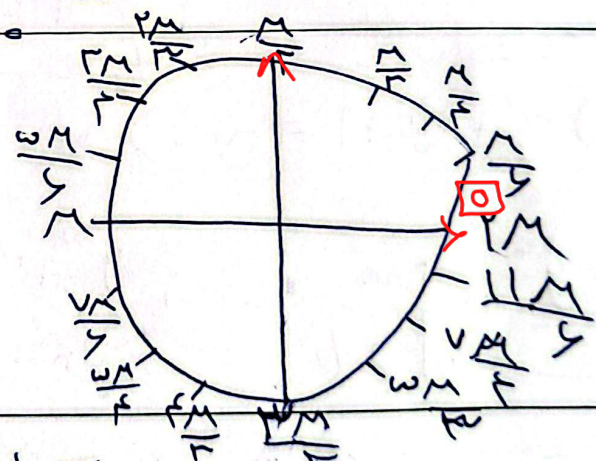
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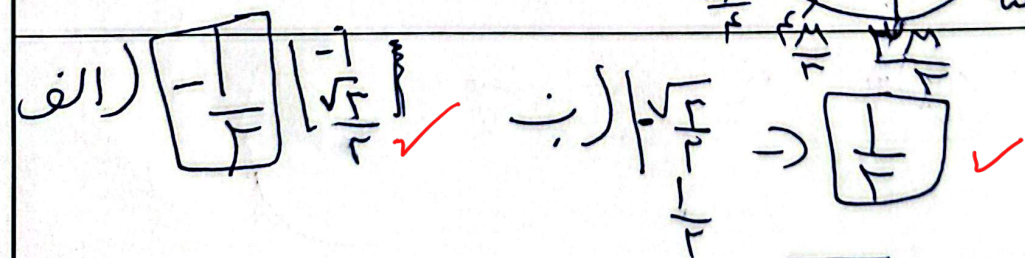


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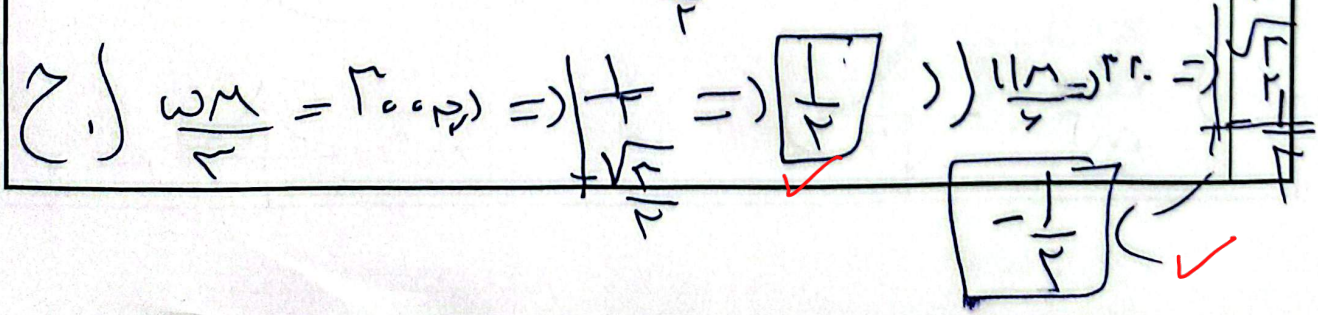


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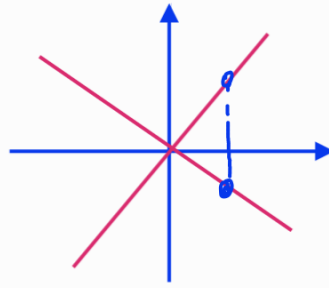


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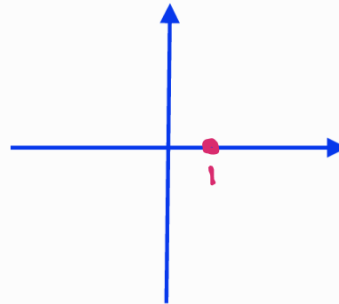
(الف) $|y| = |x| \rightarrow y = \pm x$



تابع نیست!

ج) $|y| + \sqrt{x-1} = 0$

جمع دو عبارت ناشی برابر با صفر است، پس هر دو هم برابر صفر بوده است.



$$f = \{(1,0)\}$$

تابع است!