



Qatar
online



Q2 (1 point): Find the absolute maximum and absolute minimum values, if any, of the function

$$f(x) = x - \sqrt{x}$$

12:44 pm ✓✓

10

$$y = x - \sqrt{x} \quad (0, 9]$$

$$\frac{dy}{dx} = 1 - \frac{1}{2\sqrt{x}}$$

Critical point

$$1 - \frac{1}{2\sqrt{x}} = 0$$

$$\Rightarrow 2\sqrt{x} - 1 = 0$$

$$\Rightarrow \sqrt{x} = \frac{1}{2}$$

$$x = \frac{1}{4} \quad (\text{critical point})$$

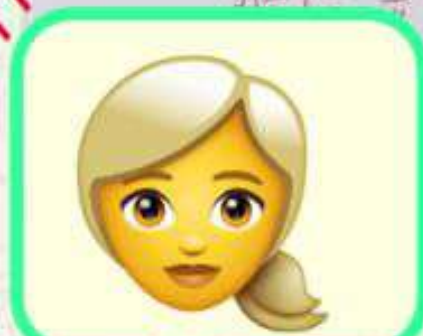
$$y(0) = 0$$

$$y(9) = 9 - 3 = 6$$

$$y\left(\frac{1}{4}\right) = \frac{1}{4} - \frac{1}{2} = \frac{2-1}{4} = -\frac{1}{4}$$

$$6 \text{ at } x = 9$$

$$-\frac{1}{4} \text{ at } x = \frac{1}{4}$$



12:46 pm ✓✓

All done ✓

12:46 pm ✓✓

You are the best 12:58 pm

Thank you 12:58 pm

Welcome:) 12:58 pm ✓✓

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Uae online



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4:02 pm ✓✓

hi 7:01 pm

Hello 7:01 pm ✓✓

You

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8:48 pm ✓✓



i got 6:49 pm

9/10 6:49 pm

i was waiting for the mark 6:49 pm

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Uae 9/10

Congratulations 🎉 6:50 pm ✓✓

Uae i will pay

Okay 6:50 pm ✓✓



Message

