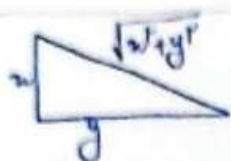


نام و نام خانوادگی: مجتبی جلالی پاسخنامه تشریحی تکلیف شماره ۱۸. کلاس: پایه دهم ریاضی

$$\frac{dL}{dw} = \frac{\omega + \pi}{r} = \frac{1 + \sqrt{5}}{r} \quad 1 + 2\pi = r + r\sqrt{5}$$

$$2\pi = r\sqrt{5} - 1 \quad \pi = \frac{r\sqrt{5} - 1}{2} \quad L = r + r\sqrt{5}$$

$$\frac{\text{مشتقات}}{\text{مشتقات}} = \frac{r_x(r + r\sqrt{5})}{r_x \omega} = \frac{r + r\sqrt{5}}{\omega}$$



$$\frac{\sqrt{x^2 + y^2}}{y} = \frac{1 + \sqrt{5}}{r} \quad \frac{r}{y} \Rightarrow \frac{x^2 + y^2}{y^2} = \frac{1 + \sqrt{5}}{r} \Rightarrow$$

$$\frac{x^2}{y^2} + 1 = \frac{1 + \sqrt{5}}{r} \quad \frac{x^2}{y^2} = \frac{1 + \sqrt{5}}{r} - 1 \quad \xrightarrow{\text{مشتقات}} \frac{y'}{x'} = \frac{r}{r(1 + \sqrt{5})} = \frac{1}{1 + \sqrt{5}} = \frac{\sqrt{5} - 1}{2}$$

$$ra + \sqrt{ra^2 + ea} = r$$

$$\sqrt{ra^2 + ea} = r - ra$$

$$ra + ra = r + 9a^2 - 12a$$

$$9a^2 - 14a + r = 0 \quad a = \frac{14 \pm 1r}{18}$$

$$a = r \quad \text{و} \quad a = \frac{r}{9}$$

$$\frac{a+1}{a} = \frac{9}{r} = \frac{9}{r}$$

$$\frac{\sqrt{x+1}}{\sqrt{x-1} + r} - \frac{\sqrt{x+1}}{r - \sqrt{x-1}} = \frac{x-1}{\sqrt{x-1}}$$

$$\text{if } \frac{\sqrt{x+1}}{\sqrt{x-1} + r} + \frac{\sqrt{x+1}}{r - \sqrt{x-1}} = \frac{x-1}{\sqrt{x-1}}$$

$$\frac{\sqrt{x+1} (r - \sqrt{x-1}) - \sqrt{x+1} (r + \sqrt{x-1})}{9 - (x-1)} = \frac{x-1}{\sqrt{x-1}}$$

$$\text{if } \sqrt{x+1} = 0 \quad x \geq -1$$

$$1 - x = -r\sqrt{x+1}$$

$$1 - x - r\sqrt{x+1} = -r\sqrt{x+1} \rightarrow x - r\sqrt{x+1} + 1 = 0 \quad x = \frac{r^2 \pm \sqrt{1+r^2}}{2}$$

$$\frac{1}{\sqrt{-x+1}} + \frac{1}{\sqrt{-x-r}} = \frac{r-x}{\sqrt{r-x}} \quad \sqrt{r-x} = t$$

$$\frac{1}{t+r} + \frac{1}{t-r} = \frac{t}{\omega t} \Rightarrow \frac{rt}{t^2 - r^2} = \frac{t}{\omega t} \quad 1 + t^2 = t^2(t^2 - r^2)$$

$$\sqrt{r-x} = r \quad x = -r^2$$

$$\frac{1}{x^r} + \frac{1}{(1-x)^r} = \frac{14}{9} \quad x(x-1) = A$$

$$\frac{14x^r - 14x + 1}{x^r(1-x)^r} = \frac{14}{9} \quad \Rightarrow \frac{(14x^r - 14x + 1)}{A^r} = \frac{14}{9} \quad 14 \cdot A^r = 9 - 14A$$

$$A = \frac{-14 \pm \sqrt{14}}{14} \quad \begin{matrix} x^r - x = \frac{1}{10} & 1 \cdot x^r - 1 \cdot x + 0 = 0 & S = 1 \\ 14x^r - 14x - 14 = 0 & 14x^r - 14x - 14 = 0 & S = 1 \end{matrix} \quad 1+1=2$$

$$\sqrt{x^r + (-x^r + x^r + 14x - 1)} + \sqrt{x^r + (-x^r + 14x - 1)} = x^r \quad x \geq -1$$

$$D: -x^r + 14x + 14 \geq 0$$

$$\Delta = 14^2 - 4 \cdot 1 \cdot 14 = 14$$

$$\frac{-14 \pm \sqrt{14}}{2}$$

$$x = \frac{-14 \pm \sqrt{14}}{2}$$

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$$y = |x+1| + |x-1| \quad y = \frac{-x+1}{\mu} + \frac{x+1}{\mu}$$

$$x = -1 \quad y = 2$$

$$x = 1 \quad y = 2$$

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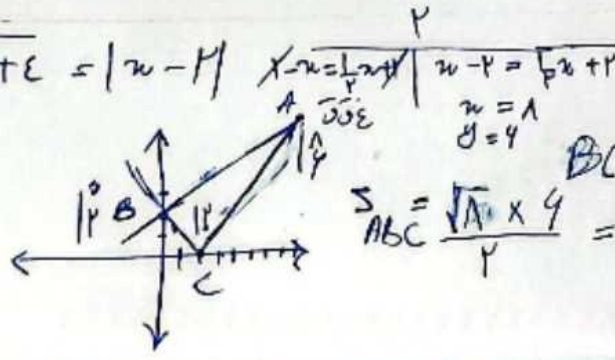
$$x = 1 \quad y = 2$$

$$x = -1 \quad y = 2$$

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$$\frac{1}{x} + \frac{1}{x-9} = \frac{1}{10}$$

$$\frac{x-9}{x^2-9x} = \frac{1}{10}$$

$$x^2 - 9x = 10x - 10 \quad x^2 - 19x + 10 = 0 \quad (x-10)(x-1) = 0 \quad x = 10 \text{ or } x = 1$$

$$x = 10 - 9 = 1$$