

Section Name Sheet

Subject

Date

کلاس سہ ماہیہ

فیلو جیو گرافی

سولہ

رابطہ انجمن المسلمین

$$g(m) = f(m) \quad g'(m) = f'(m)$$

$$f'(m) \rightarrow (1 + \tan^2 m) (\sqrt{r} \sin m) \neq (\tan^2 m + \sqrt{r} \cos m) \quad a = \frac{\pi}{2}$$

$$(r) \left(-\frac{\sqrt{r} \times \sqrt{r}}{r} \right) \neq (1) \rightarrow -r f'(r) = \sqrt{r} \rightarrow f'(r) = -\frac{\sqrt{r}}{r}$$

$$f(m) = \frac{(1 + C \sin m)(1 + C \sin m - 2 \cos m)}{(1 - C \sin m)(1 + C \sin m)} = \frac{1 + (C \sin m - 2 \cos m)}{1 - C \sin m}$$

$$f'(m) \rightarrow \frac{f}{1 - C \sin m} \rightarrow \frac{1 + C \sin m - 2 \cos m}{1 - C \sin m} = \frac{f}{1 - C \sin m}$$

$$= \frac{C \sin m (C \sin m - 2)}{1 - C \sin m} = -C \sin m \rightarrow (f - C \sin^2)' \rightarrow \sin m$$

$$\sin\left(\frac{\pi}{4}\right) \rightarrow -\frac{1}{\sqrt{2}}$$

$$f + \left(\frac{r}{2}\right) = \sqrt{a} \sin$$

$$f - \left(\frac{r}{2}\right) = -\sqrt{a} \sin$$

$$f'_+(m) = \frac{a}{\sqrt{a} \sin}$$

$$f'_-(m) = \frac{-a}{\sqrt{a} \sin} \rightarrow f'_+ - f'_- = \sqrt{a} \rightarrow \frac{ka}{\sqrt{a} \sin} = \sqrt{a}$$

$$\frac{ka}{\sqrt{a}} = \sqrt{a} \rightarrow a = \sqrt{ka} \rightarrow a^2 = ka \rightarrow a = k$$

$$a = 1$$

Problem Sheet

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$$y = r - a \rightarrow y' = -a$$

مسئله ۳

$$f(x) + f'(x) \rightarrow r - x - a = -1 \rightarrow r = 0 \rightarrow a = \frac{r}{0}$$

$$f'(x) = -a = -\frac{r}{0}$$

$$f(x) = r - x - b$$

$$f'(x) = -a \rightarrow r - x - a = 0 \rightarrow r - a = 0$$

مسئله ۴

$$r - x - b = 0$$

$$\begin{aligned} a &= -r \\ b &= -sr \end{aligned}$$

$$b - a \rightarrow 0$$

$$y = \frac{\sqrt{n+1}}{\sqrt{n-1}}, \quad \sqrt{n} = t, \quad yt - y = t+1 \rightarrow -t + yt = y+1$$

Q1

$$t(y-1) = y+1 \rightarrow t = \frac{y+1}{y-1} \rightarrow \sqrt{n} = \frac{y+1}{y-1} \rightarrow \left(\frac{y+1}{y-1}\right)^2 = n \rightarrow \left(\frac{n+1}{n-1}\right)^2 = y$$

$$y' = r\left(\frac{n+1}{n-1}\right) \cdot \left(\frac{(n-1)(n+1)}{(n-1)^2}\right)^{n=r} \rightarrow r\left(\frac{n}{n-1}\right) \left(\frac{(1)(n)}{1}\right) \rightarrow \boxed{1n}$$

$$f(1) = (1)(1) \rightarrow 1, \quad f(-1) = (n)(1-a)$$

Q2

$$\frac{1-n+na}{n(-1)} \rightarrow \frac{na-n}{-1} = -1 \rightarrow na-n = -1 \rightarrow \boxed{a = -\frac{1}{n}}$$

$$n_r \rightarrow \boxed{1} \rightarrow f(n) = r(rn)(n+1)^r \left(\frac{n}{r} + 1\right) + \left(-\frac{1}{r}\right)(n+1)^r$$

$$r(r)(r)^r \left(-\frac{1}{r} + 1\right) + \left(-\frac{1}{r}\right)(r)^r \rightarrow$$

$$r \times r \times \frac{1}{r} + \left(-\frac{1}{r}\right) \times n \rightarrow 1r - \frac{1}{r} = n$$

$\boxed{n}$

$$y_1 = \sin \frac{\pi}{2} \cos \frac{\pi}{2} \rightarrow 0$$

$$y_2 = \sin \frac{\pi}{2} \cos \pi \rightarrow -1$$

$$\frac{y_2 - y_1}{x_2 - x_1} = \frac{-1 - 0}{\frac{\pi}{2} - \frac{\pi}{2}} \rightarrow \frac{-1}{0} \rightarrow -\frac{\infty}{0}$$

$$(\sin^2 - \cos^2)(\sin^2 + \cos^2) \rightarrow \sin^2 \frac{\pi}{2} - \cos^2 \frac{\pi}{2} \rightarrow \frac{1}{4} - \frac{1}{4} = 0$$

$$(\sin^2 - \cos^2) \frac{\pi}{2} \rightarrow 1 - 1 = 0$$

$$\frac{y_2 - y_1}{x_2 - x_1} \rightarrow \frac{1 - 0}{\frac{\pi}{2} - \frac{\pi}{2}} = \frac{1}{0} \rightarrow \infty$$

$$\frac{-\frac{\infty}{0}}{\frac{\infty}{0}} = \boxed{-1}$$

$$\frac{a_{n+1}}{r_{n+1}} = \frac{n+5}{r} \rightarrow (r_{n+1})(n+5) = van - v$$

$$r_{n+1} + 14n + 5 = van - v \rightarrow r_{n+1} + (14 - va)n + 5 = 0 \rightarrow \Delta = 0$$

$$29a^2 - 2r^2a + 204 - 185 = 0 \rightarrow 29a^2 - 2r^2a + 119 = 0$$

$$va^2 - r^2a + 14 = 0 \rightarrow a^2 - r^2a + 119 = 0$$

$$(a - r)(a - 13) \rightarrow a = \frac{r}{2} \rightarrow \times \text{ not possible } n=1 \text{ or } 2$$

$$1 \rightarrow \boxed{a = 13} \rightarrow \checkmark$$