

3- مسا 22- مسا مسا

20) $\begin{cases} bm + c & m < a \\ \frac{1}{m} & m \geq a \end{cases}$

$\frac{-1}{m^2}$

$ab + c \leq \frac{1}{a} \Rightarrow a^2 b + ac \leq 1$

$b = \frac{-1}{a^2} \Rightarrow a^2 b = -1$ $ac \leq 1$

25) $m > 0$ $\xrightarrow{f(n)} 0 = m(0)$

$m < 0$ $\xrightarrow{f'(m)} 0$

m integers

a) $g'(-\sqrt[r]{r}) f'(g(-\sqrt[r]{r})) = (f \circ g)' \Rightarrow (m)' = 1 \rightarrow (f \circ g(-\sqrt[r]{r}))' = 1$

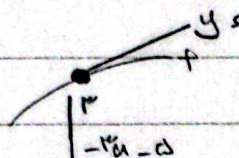
30) $x < 0 \Rightarrow g(m) \leq \frac{1}{m^r + m^r} (f \circ g) \leq \frac{1}{\sqrt[r]{\frac{1}{m^r} + \frac{1}{m^r}} - \sqrt[r]{\frac{1}{m^r}}} = \frac{1}{x}$

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Subject:

Year: Month: Day: ()

page: ()

c)  $y = -am - d$ $\frac{f(r)}{n=r} \rightarrow y = -ra - d$

$$f'(r) - f(r) = r$$

$$-a + ra + d = r$$

$$\frac{f(r)}{f'(r)} = \frac{-r \times \frac{r}{r} - d}{-(-\frac{r}{r})} = \frac{\frac{r}{r} - d}{\frac{r}{r}} = \frac{1}{r}$$

$$ra - r = a - \frac{r}{r}$$

5

v) $(f \circ g)' = f'(g(n)) \times g'(n)$ $g\left(\frac{r}{\sqrt{n}}\right) = \frac{1}{\sqrt{\frac{r}{\lambda} - 1}} = r$

$$g'\left(\frac{r}{\sqrt{n}}\right) = \frac{-r \times \frac{r}{\sqrt{n}}}{\sqrt{\left(\frac{r}{\sqrt{n}} - 1\right)^2}} = \frac{-r \times \frac{r}{\sqrt{n}}}{\sqrt{\left(\frac{r}{\sqrt{n}} - 1\right)^2}} = \frac{-14}{\sqrt{r}} = -\sqrt{r}$$

$$f'(g(n)) \times g'(n) = 14 \times -\sqrt{r} = -14\sqrt{r}$$

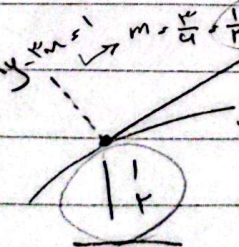
1) $g'(n) \times f'(n+1) + r \times f'(r_{n+1}) \rightarrow f'(-1) + r \times f'(r)$

$$\frac{r}{r} + r \times \frac{r}{r} = 1 + d = f$$

$$f'(-1) = f'(r) = \frac{r}{r} = 15$$

q) $-rf(a-h)f'(a-h) + r \times f'(a-h) = -rf(a) \cdot f'(a) + r \times f'(a) = -r \times r \times \frac{rd}{r} + r \times \frac{rd}{r} = -rd + rd = 0$

$f(a) = \sqrt[3]{a+r} = r$ $f'(a) = \frac{1}{3} \sqrt[3]{m+r} + \frac{(m-r)}{3 \sqrt[3]{(m+r)^2}} = \frac{r}{3} + \frac{1}{3} \frac{1}{r^2} = \frac{rd}{3r} = \frac{d}{3}$

b)  $y = n^r - em + d$ $rm - e = r$

$n = 1$ $y = 1 - e + d = r$

25