For the square root 1-570 = 175 -And for the tectional function f(t), we have to exclude those values of &. that makes the function undefined i.e the denominators goes to 2 erro.

@ born @ christidmas

combining
$$\bigcirc$$
 and \bigcirc
 $D = \{2+1+25, +\neq 7\}$ or $D = \{5,7\} \cup (7,\infty)$

A
$$x=1$$
, $f(0) = 4-1=3$
A $x=2$, $f(2) = 4\cdot 2^{4}-1 = 16-2=14$ Containing the points

The ean of secont line will be containing the points (1,3) and (2,14).

$$y - 3 = m(x - 1) - 0$$
we know $m = \frac{f(2) - f(1)}{2 - 1} = \frac{14 - 3}{2 - 1} = 11$

From (1) -

$$= 3 = 11x - 11 + 3$$

2. a. Domain =
$$(-\infty, \infty)$$
 [1]

Range = $(-\infty, \infty)$ [1]

b. Increasing intervals: $(-\infty, -2)_{0}(-1, 1)_{0}(2, \infty)$

Decreesing intervals: $(-\infty, -2)_{0}(-1, 1)_{0}(2, \infty)$

2. local maximum is at $x = -2$ and maxim value = 3

1. at $x = 1$ and 1. $x = 2$

local minimum is at $x = -1$ and minimum value = 0

1. at $x = 2$

1. at $x = 2$

1. at $x = -1$

2. d. Dose not have any absolute maximum are absolute minimum.

2. $x = 2$

3. $x = 2$

1. $x = 2$

= y= m(x+1) = y= x+1

line 14=1

for 12), we see greeph of another howards

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