MATH195 Quiz 1 - Fall 24



EMPLID: 24405CC

Answer all 4 questions. You must show all of your work as neatly and clearly as possible and indicate the final answer in the provided region for each non-graph question. For all graph questions, you should sketch your graph on the grid provided.

1. For the following question, use the function f represented in the table below.

| | | | | | | | | | F************************************* | |
|------------------|----|----|---|----|----|-------------|----|----|--|----|
| \boldsymbol{x} | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| f(x) | 74 | 28 | 1 | 53 | 56 | 3 | 36 | 45 | 14 | 47 |

(a) Evaluate f(3).

(a) _53

(b) Solve f(x) = 1.

(b) \(\overline{\pi} \)

2. Let f(x) = 8x - 7. Find f(x + h).

$$f(x) = 8x - 7$$

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Write your answer in the box below:

$$f(x+h) = \bigcap$$

3. Let
$$f(x) = 3x^2 - 2x$$
. Find $\frac{f(1+h) - f(1)}{h}$.

$$F(x) = 3x^{2} - 2x$$

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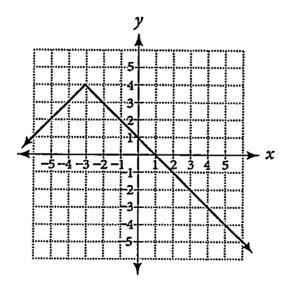
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$$3$$

Write your answer in the box below:

4. Below is the graph of the function g(x). Use the graph to find g(4).



Write your answer in the box below:

$$g(4) = -3$$