4: I CAN use function notation in order to create, evaluate, and interpret functions in different representations.

Create a table of values for the following functions (see 1 as an example)

1. $f(x) = x - 3$ 2. $g(x) = -2x$ 3. $h(x) = 5 - 3x$

x	y
0	-3
1	-2
5	2
10	7
100	97

Find the missing input or output.

4. $f(x) = \frac{x}{2} + 3$ 5. $p(x) = 2(3 - x)$ 6. $m(x) = x^2$
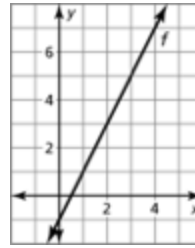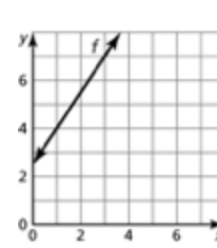
Input = 6   Input = ____   Input = 4
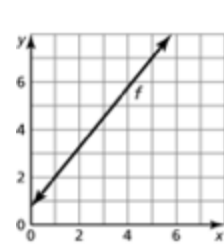
Output = ____   Output = 10   Output = ____

7. Input = 2   8. Input = ____   9. Input = ____

Output = ____   Output = 4   Output = 6

Read the following situation and answer the questions.

10. The function f(x) = 6x + 20 represents the amount of money you've earned this month where f(x) is the money you have and x is the number of hours you worked.

If you work 10 hours, how much money have you earned?

If you earn 380 dollars, how many hours have you worked?

Read the following situation and answer the questions.

11. Let f(x) be the number of people at the football game x hours into the game. Interpret the following:

f(0) = 0   f(2) + 35 = f(3)

f(3) > f(4)

Bonus: Why would f(3) > f(4)??