Math 4   Function Notation   Name: _____
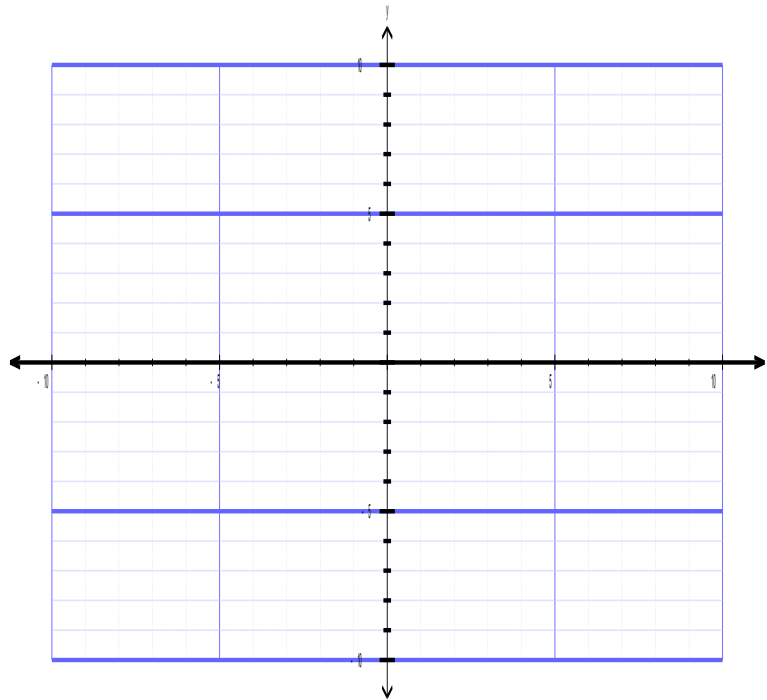
1.   Given the function $f(x) = 3x + 5$
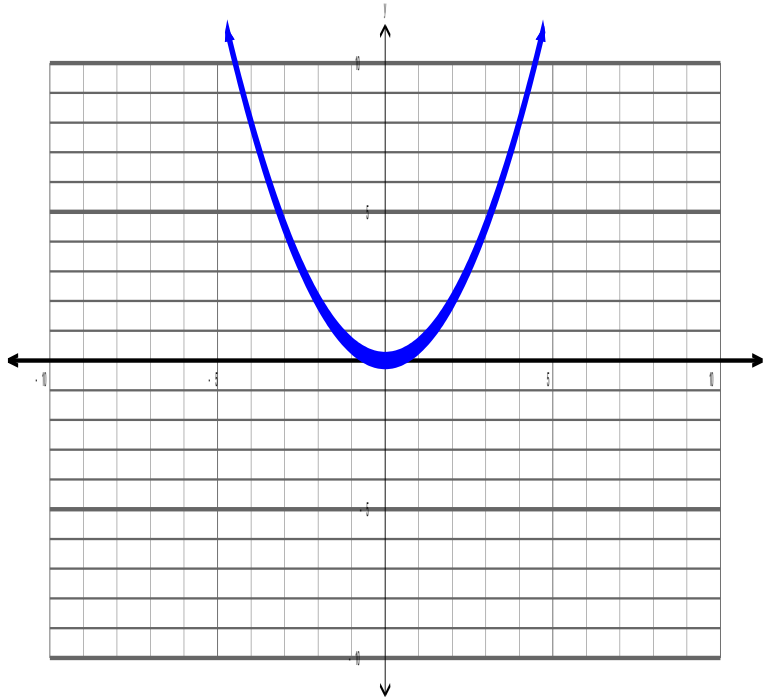
a) Evaluate $f(0)$

b) Evaluate $f(2)$

c) Evaluate $f(-5)$

d) Knowing that $f(x)$ is a linear function, use your results to parts (a), (b) and (c) to graph the function below. Be sure to include arrows at each end!

2.   Given the function $f(x) = 0.5x^2$ and its graph shown below:

a) Using the graph, approximate $f(0), f(1), f(-1), f(2), f(-2)$

b) Use the above rule to check your answers to part (a)

c) If the value of $f(x)$ is 8, what are the possible **values** of x? Use both the graph and the rule given above to check that you are correct.