MrF

GRADE 12 APPLIED
REVIEW OF FUNCTIONS & RELATIONS
FROM PRIOR STUDIES

Name: _____

Date: _____

1. Evaluate the following mathematical expressions for the given value:

a. **x + 5** , if x = 3

b. **3x + 4**; given x = 7

c. **3t – 6**; given t = ⁻5

d. $\frac{5}{8}t + \frac{3}{4}$; if $t = 20$

2. Calculate the value of some amount **y** for these functions that perform some function on some value, **x**, to get another value, **y.**

x	Function ; f(x)	y = f(x)
5	f(x) = 3x + 7 eg: f(5) = 3(***5***)+7 = 22	**y = 22**
10	f(x) = 3x + 7	
15	f(x) = 3x + 7	
-3	f(x) = 0.75x + 4.2	
-1.2	f(x) = 0.75x + 4.2	
0	f(x) = 0.75x + 4.2	
2	f(x) = 0.75x + 4.2	
4	f(x) = 0.75x + 4.2	
9	f(x) = $\frac{2}{3}$x+5	
12	f(x) = $\frac{2}{3}$x+5	
$\frac{1}{2}$	f(x) = $\frac{2}{3}$x+5	
$-\frac{3}{8}$	f(x) = $\frac{2}{3}$x+5	

Manually plot and label the following random points on the (x, y) coordinate grid.

A(1, 7)

B(3, ⁻5)

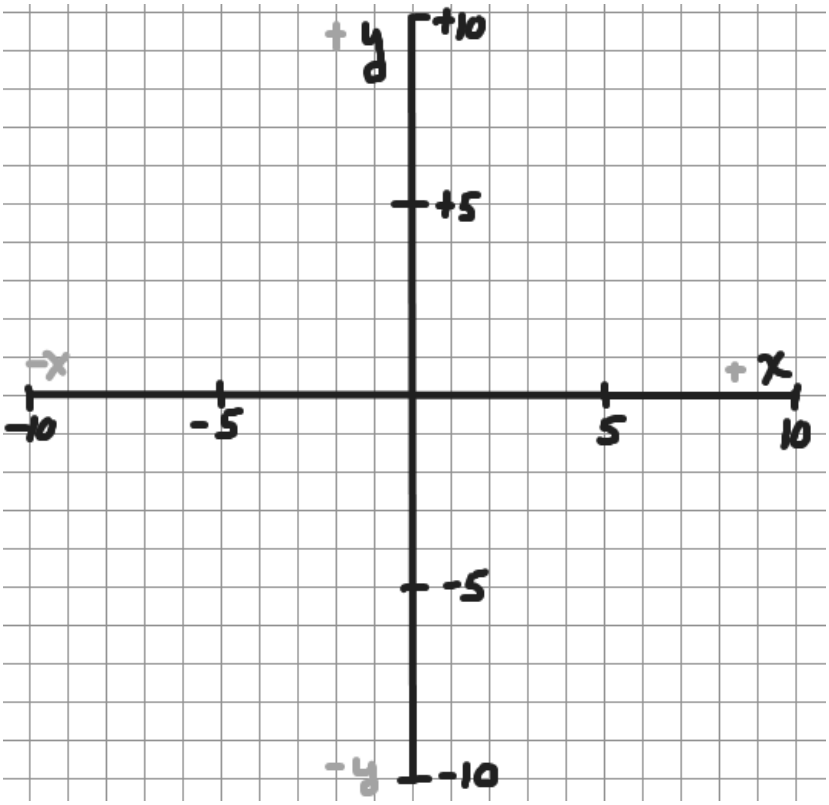
C(0, 0) ‘Origin’

D(⁻4, 9)

E(⁻8, ⁻5)

F(0, 7)

G(3, 0)



Graph the *linear* relationship from the function tables below:

a.

x	y = 2x+3
-4	
-1	
0	
1	
2	

b.

x	y = –x – 2
-4	
-1	
0	
1	
2