Topic
(Sub-Topic)

Name : _____

Grade : _____ Date : _____

Practice Problems − 1

The tables show input and output values of functions similar to $f(x) = ax$, Write the corresponding function for each table.

0)

x	1	2	3	4	5
$f(x)$	3	6	9	12	15

$f(x) = 3x$

1)

x	54	42	24	18	72
$f(x)$	9	7	4	3	12

$f(x) =$ _____

2)

x	2	4	8	16	32
$f(x)$	3	6	12	24	48

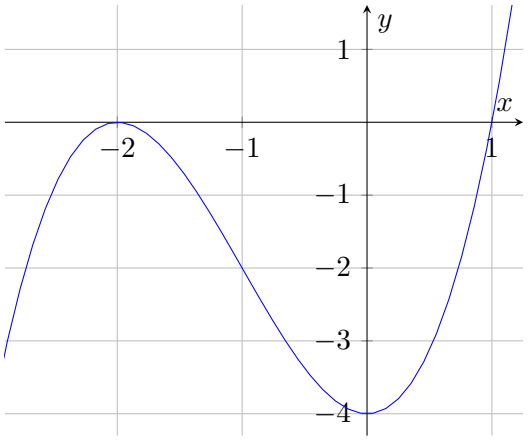
$f(x) =$ _____

3)

x	8	5	12	11	102
$f(x)$	64	40	96	88	816

$f(x) =$ _____

4) Identify the function for the given plot:



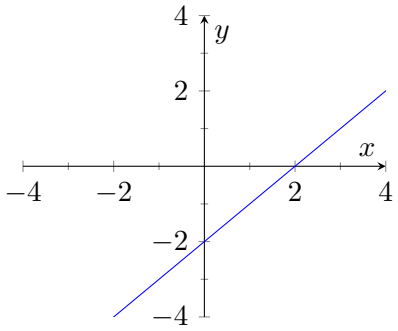
a) $f(x) = x(x+2)(x-1)$ -

b) $f(x) = (x-1)(x+2)^2$ -

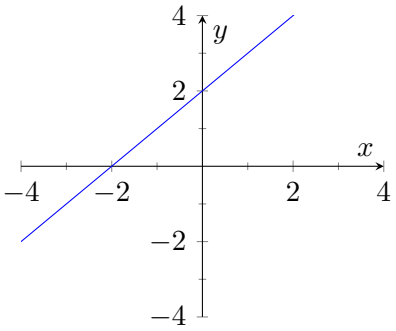
c) $f(x) = x(x-1)(x+2)^2$ -

d) $f(x) = (x-1)^2(x+1)^2$ -

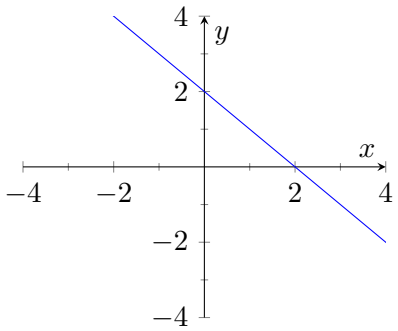
5) Identify the plot of $y = x + 2$



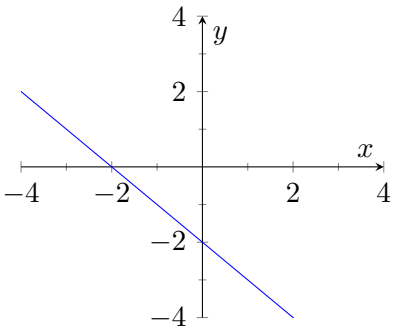
(a):



(b):

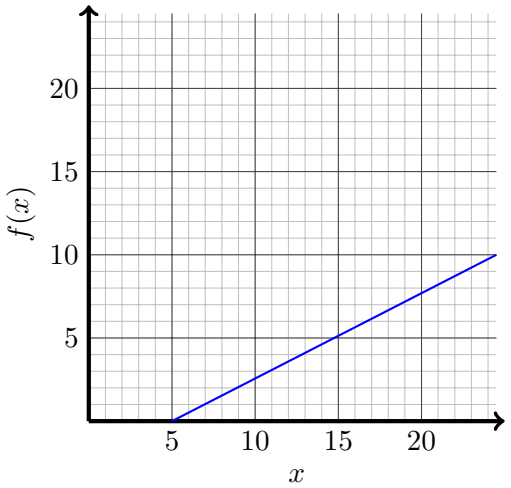


(c):

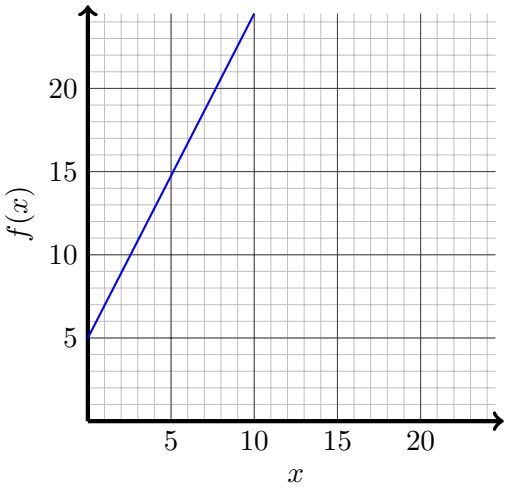


(d):

6) Which of the following two plots describes the function $f(x) = 2x + 5$

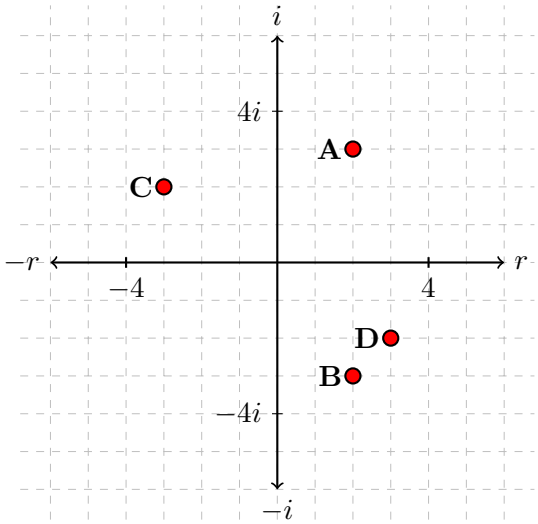


(a):



(b):

7) Write the complex numbers for all points given the figure.



A : $2 + 3i$

B : _____

C : _____

D : _____

Complete the tables for each equation.

8) $f(x) = 2x^2 - 3$

x	1	3	4	7	9	12
$f(x)$						

9) $9y = 3x$

x			15	27		
y	3	15			6	12

10) $g(x) = \frac{1}{2}x + \frac{1}{2}x$

x		12	17	8		
$g(x)$	1				9	12