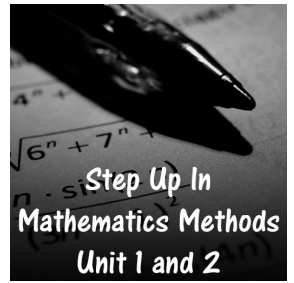


# 1.2 Finding Linear Equations

## Problems Worksheet



1. Obtain the equation of the line connecting the following points:

a.

$x$	-1	0	1	2	3
$y$	0	2	4	6	8

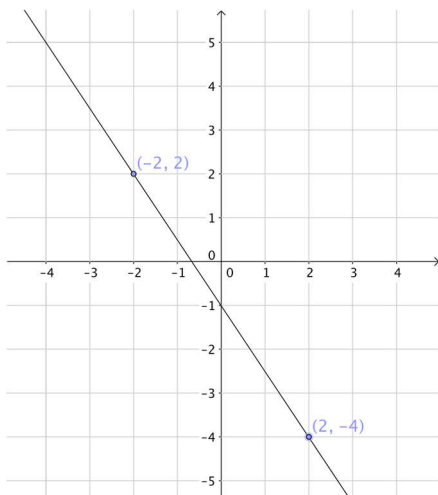
b.

$x$	2	4	6	8	10
$y$	-1	-5	-9	-13	-17

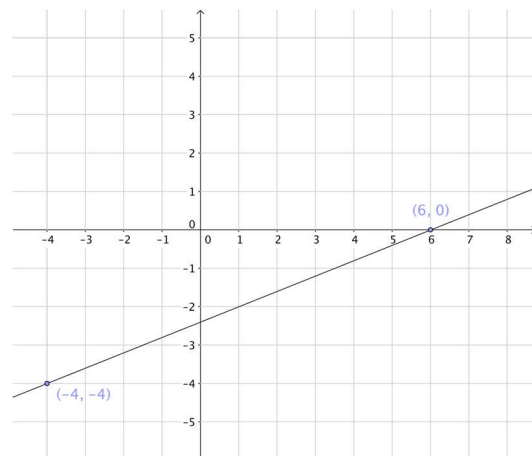
c.

$x$	-1	1	6	3	8
$y$	-7	3	28	13	38

d.



e.



f.  $(-5,6)$  and  $(12,-6)$

g.  $(3,-2)$  and  $(7,11)$

2. Find the equation of the line parallel to  $x+y=1$  that passes through  $(-2,-6)$

3.

a. Are the lines  $y = -7x + 1$  and  $7y + 63 = x$  perpendicular?

b. Find the equation of the line perpendicular to  $y = \frac{1}{2}x + 3$  that passes through the origin

4. A kite has corners at points  $A(-3,1)$ ,  $B(-6.5,4)$ ,  $C(-2,5)$  and  $D(9.5,0)$ . Prove that  $BD$  is the perpendicular bisector of  $AC$ .