



COACHING CENTRE

# Linear Relationships

## Graphing Linear Functions

1 Plot the following points on a number plane and join them to form a straight line.

a

$x$	-2	-1	0	1	2
$y$	2	1	0	-1	-2

b

$x$	-2	-1	0	1	2
$y$	-3	-1	1	3	5

c

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

d

$x$	-2	-1	0	1	2
$y$	3	2	1	0	-1

2 Complete the following table of values for each linear function.

a  $y = 2x$

$x$	-2	-1	0	1	2
$y$					

b  $y = -2x$

$x$	-2	-1	0	1	2
$y$					

c  $y = x + 1$

$x$	-2	-1	0	1	2
$y$					

d  $y = x - 1$

$x$	-2	-1	0	1	2
$y$					

e  $y = 2x + 3$

$x$	-2	-1	0	1	2
$y$					

f  $y = -x + 2$

$x$	-2	-1	0	1	2
$y$					