



To be completed on loose-leaf paper.  
Show FULL working out.



**Aims:**

- To provide ongoing revision of skills and concepts
- To develop procedural knowledge and fluency.

**Need help? →**

**1** Evaluate the following:

- a.  $-15 + (-5)$                       b.  $-3 \times -2$                       c.  $8 \div (-2)$   
d.  $6 + 10 \times [3 + (-2)]$

**2** Evaluate each of the following expressions by substituting  $x = 2$ ,  $y = -3$  and  $z = 5$

- a)  $2x(y + 4z)$                       b)  $\frac{5y-z}{x}$                       c)  $9xy + 4z$

**3** Complete the following tables of values for each rule given, plot the points on a Cartesian plane (on graph paper), and join them to make a linear graph. Label the graphs with the rules.

a) Rule:  $y = x$

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

b) Rule:  $y = x + 3$

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

c) Rule:  $y = -2x$

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

d) Rule:  $y = 2x - 5$

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

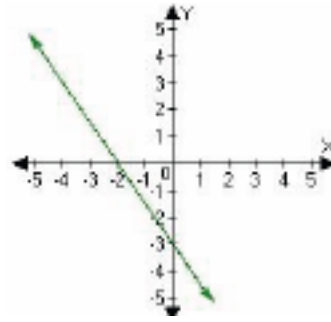
e) Rule:  $y = -2x + 3$

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

5.

For the graph shown on the right:

- a. What is the value of the  $y$ -intercept?
- b. What is the value of the  $x$ -intercept?
- c. What are the coordinates of the  $y$ -intercept?
- d. What are the coordinates of the  $x$ -intercept?
- e. What is the gradient of the line?
- f. Write the equation of the line in the form  $y = mx + c$



**ANSWERS:** You must show the mathematics used to get these answers. Simply writing the answer is not enough.

No answers given.