

## Plotting Linear Graphs

### RoK-Retention of Knowledge

Evaluate the following when

$$a = 3, b = 5, c = -5$$

- |                        |                |
|------------------------|----------------|
| 1) $7a$                | 5) $a^2$       |
| 2) $4b - 2a$           | 6) $2b^2$      |
| 3) $6c$                | 7) $3b^2 + 7b$ |
| 4) $\frac{1}{2}b + 4a$ | 8) $4a^2 - 4b$ |

Unscramble and define the key words.

### Literacy



rallepal

intedrag

dineprepalurc

Remember

$$3y = 3 \times y$$

$$y^2 = y \times y$$

### Memory

When **plotting coordinates** remember the rhyme, "along the corridor and up the stairs".

You find the  $y$  coordinate by substituting  $x$  values into the equations, in the form of  $y = mx + c$ .

On the grid opposite **Skill 1** draw and label the following lines accurately.

- $y = x$
- $y = 2x + 4$

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

- $y = 2x - 2$

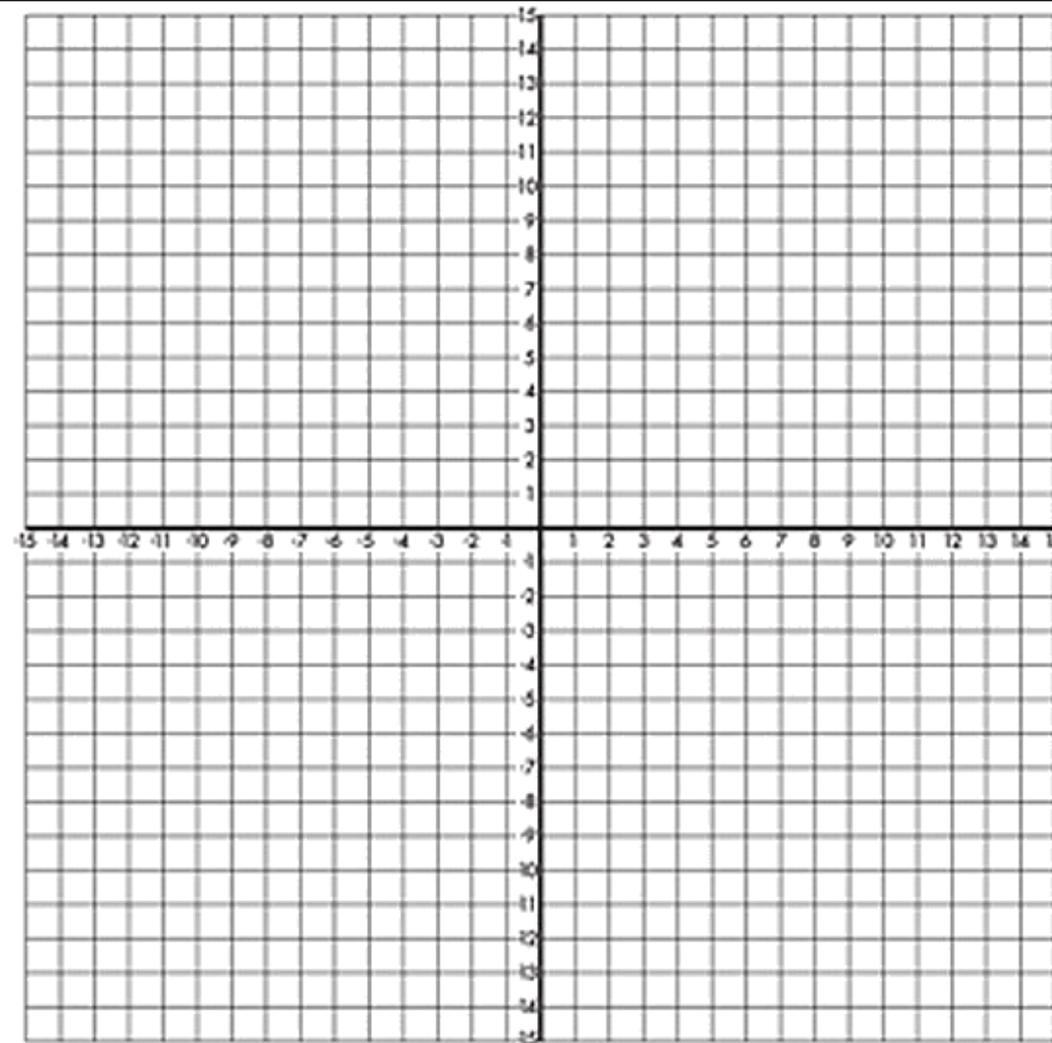
$x$	-3	-2	-1	0	1	2
$y$						

- $y = 3x + 5$

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

- $y = 3x - 3$

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



[www.missbsresources.com](http://www.missbsresources.com)

Draw and label lines parallel to

### Stretch 1

- Questions 1 ( $y = x$ )
- Question 3 ( $y = 3x - 2$ )
- Question 4 ( $y = 2x + 5$ )

What do you notice about the parallel lines? Think about the gradient and intercept.

### Stretch 2