

Plotting Quadratic Graphs

RoK-Retention of Knowledge

Evaluate the following when

$$a = 4, b = 6, c = -3$$

- | | |
|------------------------|----------------|
| 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



aniler

taduqaric

Dartuqan

Remember

$$3y = 3 \times y$$

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

Memory

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

Find a series of co-ordinates by substituting x values into the line equation.

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

1) $y = x^2$

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

2) $y = x^2 - 2$

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

3) $y = x^2 + 3$

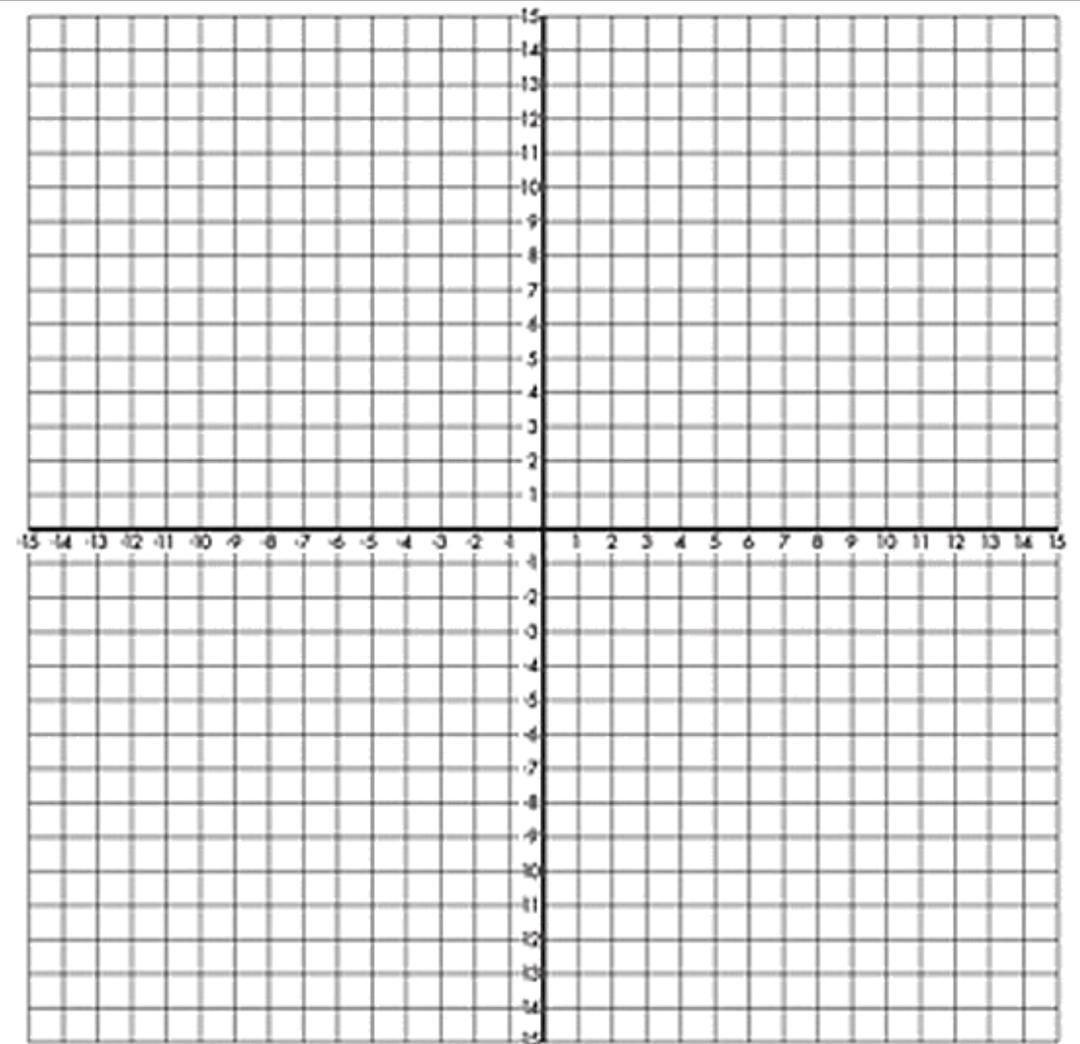
x	-3	-2	-1	0	1	2	3
y							

4) $y = 2x^2 - 6$

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

5) $y = -x^2$

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



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What are the solutions of the lines

$$y = 2x^2 - 3x$$

$$y = 3x + 4$$

Step 1 – Set up table and find pairs of co-ordinates for both graphs.

Step 2 – Plot and label both graphs.

Step 3 – The co-ordinates at the points of intersection are the solutions.