Maths

# Draw Quadratic Graphs *a* > 1

Miss Davies

This resource contains colour font and images



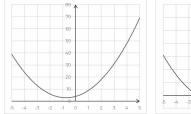
1

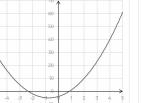
1. Complete the table of values for  $y = 2x^2 + 3x + 4$ .

Х	-3	-2	-1	0	1	2	3
У	13				9		

2. Which graph shows  $y = 2x^2 + 3x + 4$ ?

A B





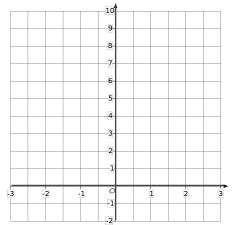


3. a) Complete the table of values for

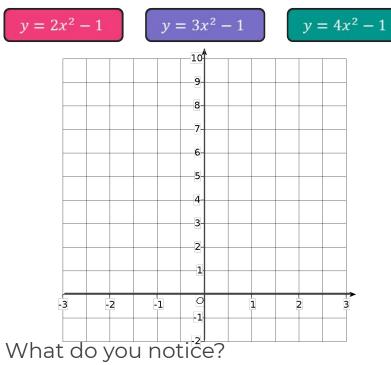
$$y = 2x^2 - 3x$$

Х	-1.5	-1	-0.5	0	0.5	1	1.5
У							

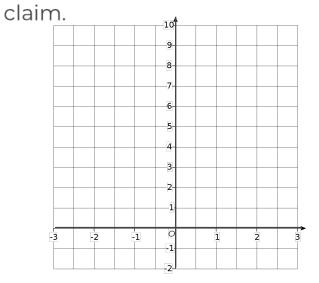
b) Plot the curve  $y = 2x^2 - 3x$ 



4. On the grid below plot the curves.



5. Sam says that  $y = x^2 - x$  is a reflection of  $y = x^2 + x$  in the line x = 0. Plot both graphs to justify Sam's



## Answers

1. Complete the table of values for  $y = 2x^2 + 3x + 4$ .

Х	-3	-2	-1	0	1	2	3
У	13	6	3	4	9	18	31

2. Which graph shows  $y = 2x^2 + 3x + 4$ ?

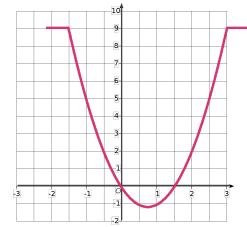
B

3. a) Complete the table of values for

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

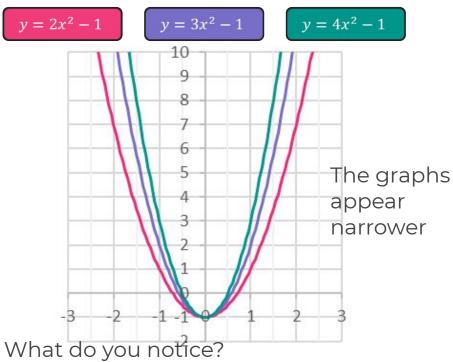
X	-3	-2	-1	0	0.5	1	1.5
У	9	5	2	0	-1	-1	0

b) Plot the curve  $y = 2x^2 - 3x$ 



А

4. On the grid below plot the curves.



5. Sam says that  $y = x^2 - x$  is a reflection of  $y = x^2 + x$  in the line x = 0. Plot both graphs to justify Sam's

claim.

