

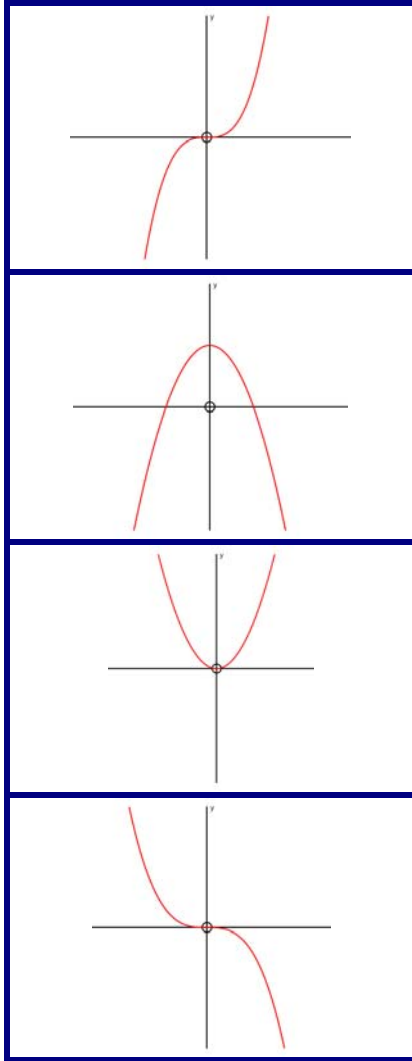
ALGEBRAIC GRAPHS

Name: _____

Assessment Criteria: Plot graphs of simple quadratic and cubic functions, e.g. $y = x^2$, $y = 3x^2 + 4$, $y = x^3$.

You will need 2 mm graph paper for this task. Attach the graph paper to this sheet.

1. Draw lines to match each of the graphs to the correct function



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

2. Complete the following tables by filling in the missing values:

$y = 2x^2$				
x	-1		1.5	2
y		0		

$y = x^3 - 3$				
x	-1	0	0.5	
y				5

3. Plot the graph of $y = 3x^2 + 4$ on 2 mm graph paper. Choose the scales sensibly.

Overall, I think my success level is:

Low High

Q	ALGEBRAIC GRAPHS	☺	☹
	I can recognise the graph of a quadratic function		
	I can recognise the graph of a cubic function		
	I can find points in all four quadrants for quadratic and cubic functions		
	I can choose sensible scales when plotting graphs of quadratic and cubic functions		
	I can plot graphs of quadratic and cubic functions		
	<i>I can give reasons for choice of presentation, explaining selected features and showing insight into the problems structure</i>		
I need to practise ...			