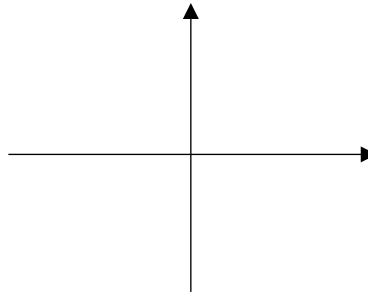
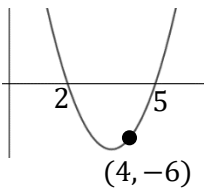


Name: _____

Class: _____

Marking Column

For each question, colour the circle for a correct answer.

1.	Graph of $y = \cos x$, $0^\circ \leq x \leq 360^\circ$ Label the x -axis every 90° . 	7.	Sketch the graph of $y = (x + 2)^2(x - 1)^2$ showing any intercepts. 
2.	Symmetry properties for sin and cos (in degrees)	8.	Two lines with gradients m_1 and m_2 are (a) Parallel if... $m_1 =$ (b) Perpendicular if... $m_1 =$
3.	4 criteria to model using the binomial distribution...	9.	True or false: (a) $\log_2 x - \log_2 y = \frac{\log_2 x}{\log_2 y}$ (b) $\log_2 2 = 1$ (c) $\log 0 = 0$
4.	State the criteria required for a maximum point on a curve.	10.	Condition for statistically independent events...
5.	Simplify $e^{3 \ln x}$	11.	Equation of a circle with centre (a, b) , radius r .
6.	Equation of this quadratic in the form $y = ax^2 + bx + c$ 	12.	$\sin x = \frac{1}{4}$, $0^\circ < x < 90^\circ$ Find the exact value of $\tan x$.

Q	✓
1.	☐
2.	☐
3.	☐
4.	☐
5.	☐
6.	☐
7.	☐
8.	☐
9.	☐
10.	☐
11.	☐
12.	☐
Score	
Time	