Stationary points and turning points

Answers

GCSE Maths topic practice

This topic online

Q	Answer	Marks
1	**a)** (3, -8) **b)** minimum	3
2	(2, 13)	3
3	**a)** $dy/dx = 3x^2 - 3 = 0$ when $x = 1$, and $y = 1 - 3 + 6 = 4$, so P is on C with gradient 0 **b)** minimum	3
4	**a)** $k = -8$ **b)** -9	4
5	**a)** 50 **b)** 10	4
6	**a)** 30 **b)** 350	4
7	**a)** (3, 6) **b)** minimum	4
8	**a)** $x = 1$ or $x = 3$ **b)** (1, 5) **c)** (3, 1)	5
9	**a)** $A = 120x - 2x^2$ **b)** $x = 30$ **c)** 1800	5
10	**a)** $12x^2 - 192x + 576$ **b)** $x = 4$ **c)** 1024	5

Full worked solutions, written out by hand, are on the solutions sheet for this topic.

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