Differentiation

Answers

GCSE Maths topic practice

This topic online

Q	Answer	Marks
1	$3x^2 + 8x - 7$	2
2	**a)** $20x^3 - 4x$ **b)** -16	3
3	2	2
4	**a)** $2x - 6/x^2$ (accept $2x - 6x^{-2}$) **b)** 2.5	3
5	**a)** $1 - 8/x^3$ (accept $1 - 8x^{-3}$) **b)** 9	3
6	x = 0 or x = 2	3
7	(4, -13)	3
8	**a)** $20 + 12t - 3t^2$ **b)** 29 **c)** the water is flowing into the tank at 29 litres per minute at t = 3	4
9	y = 10x - 15	4
10	**a)** $3x^2 - 12x + 9$ **b)** y = 9x - 32	5

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

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