



# Graphs of Functions

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1	8	(a) 43 to 47 (b) 64 to 68	1 2	SC1 23 to 27
2	5	$a$ any negative integer $n$ any even (positive) integer	2	B1 for one correct
3	16	(a) 0.7 to 0.8 and 5.2 to 5.4 (b) -2 to -1 but must have a tangent at $x = 1$ for full marks	2 3	B1 B1 M1 drawing tangent at $x = 1$ M1 for using ystep/xstep on their tangent wherever it is drawn
4	19	(a) 75 (b) 3.5 -6.5 (c) $\frac{x-3}{2}$ oe final answer (d) 5	2 3 2 1	B1 for $[g(6) =] 36$ M1 for $(2x + 3)^2 = 100$ M1 for $2x + 3 = [\pm]10$ If 0 scored, SC1 for one correct value as answer M1 for $x = 2y + 3$ or $y - 3 = 2x$ or $\frac{y}{2} = x + \frac{3}{2}$ or better

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