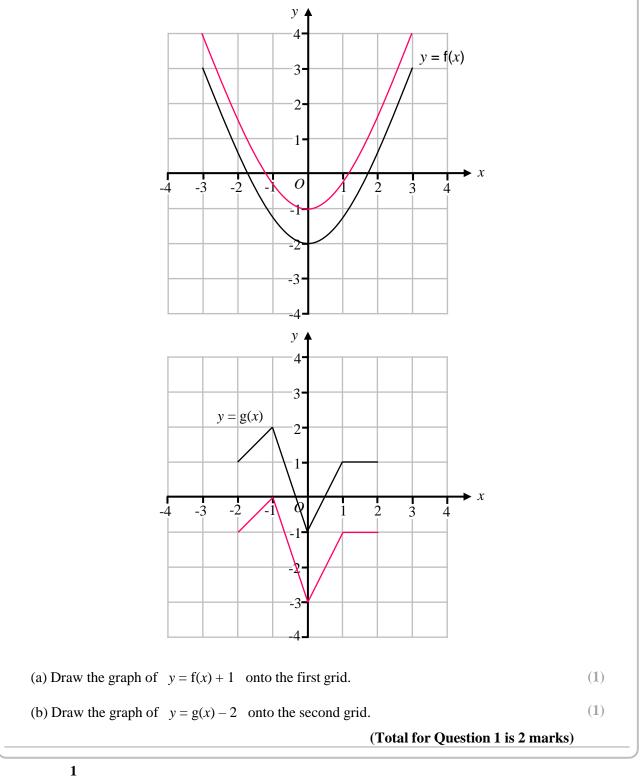


1 The graphs of y = f(x) and y = g(x) are shown on the grids below.



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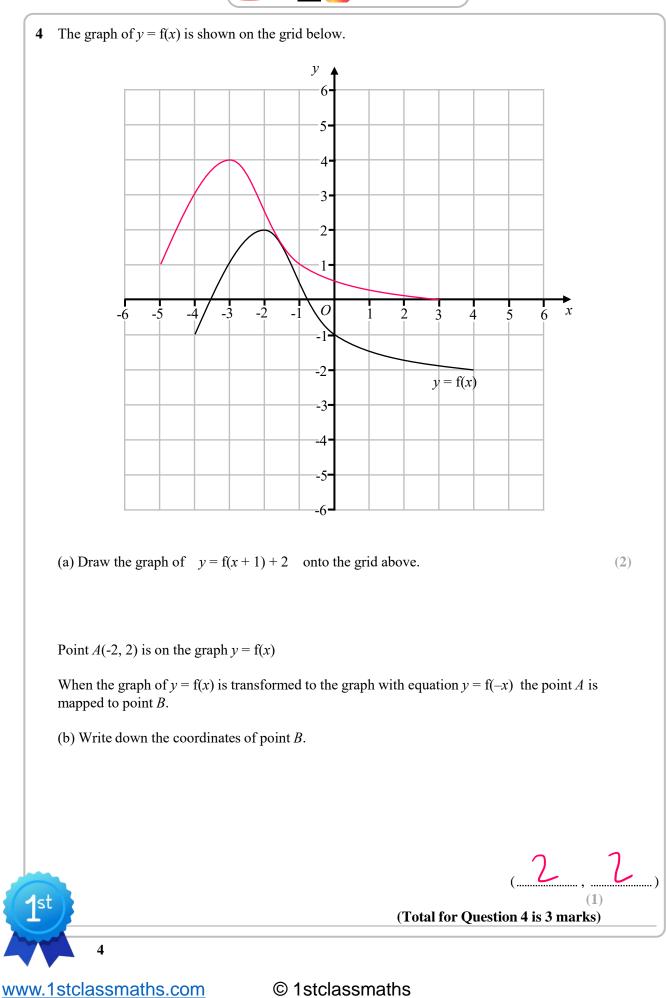
- 下 🔰 💽 @ 1stclassmaths
- The graphs of y = f(x) and y = g(x) are shown on the grids below. 2 *y* 5-4 3 y = f(x)2 1 ► x -3 4 -5 -2 3 5 0 -4 -1 -2 -3 -4 -5 У 5-4 3 2 1 х 5 -5 -4 -3 -2 3 4 0 -i **ż** -1 -2 -3 y = g(x)-4 -5 (a) Draw the graph of y = f(x + 1) onto the first grid. (1) (1) (b) Draw the graph of y = g(x - 2) onto the second grid. (Total for Question 2 is 2 marks)

2

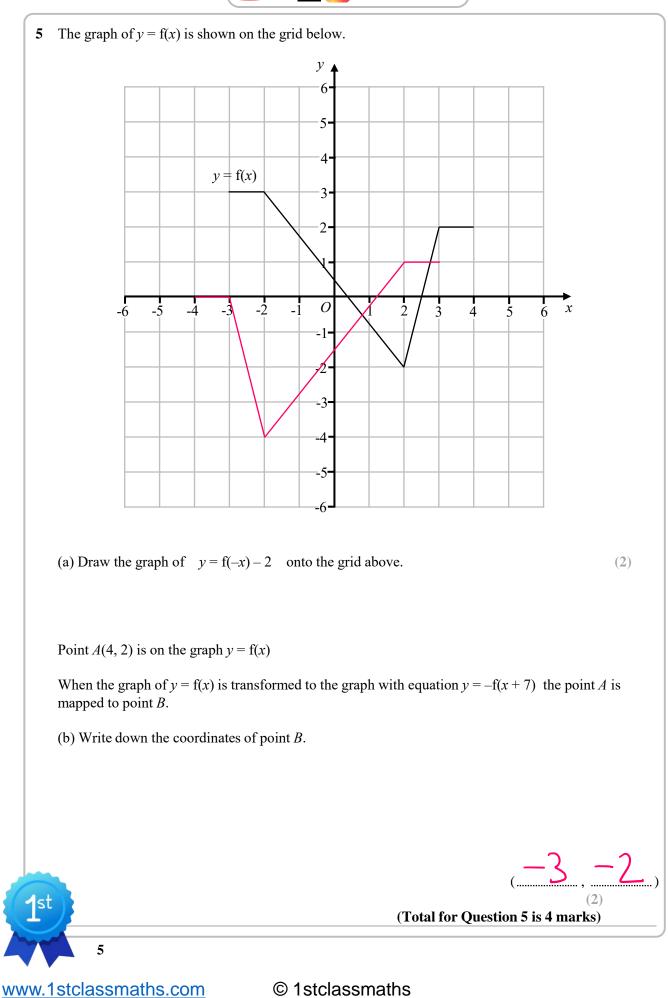
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- The graphs of y = f(x) and y = g(x) are shown on the grids below. 3 У 🛉 y = f(x)► x 0 y ► x 0 y = g(x)(a) Draw the graph of y = -f(x) onto the first grid. (1) (b) Draw the graph of y = g(-x) onto the second grid. (1) (Total for Question 3 is 2 marks)

3

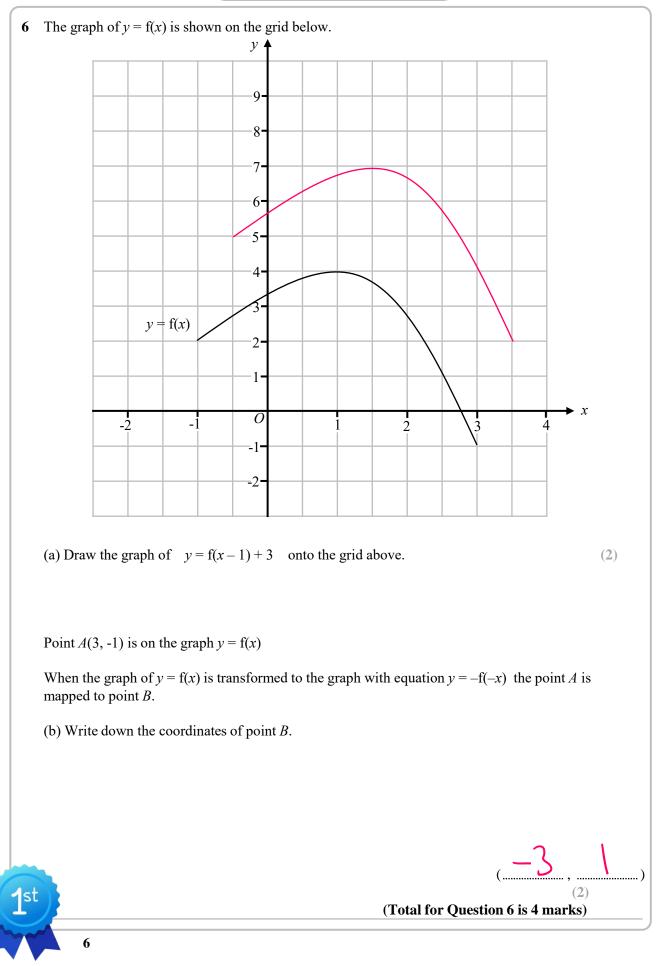




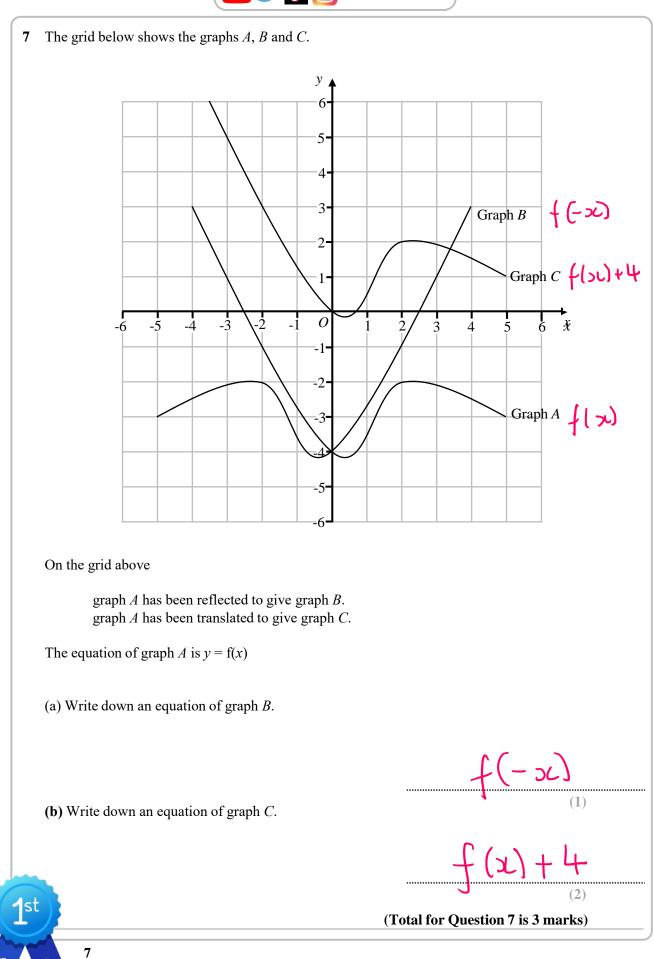






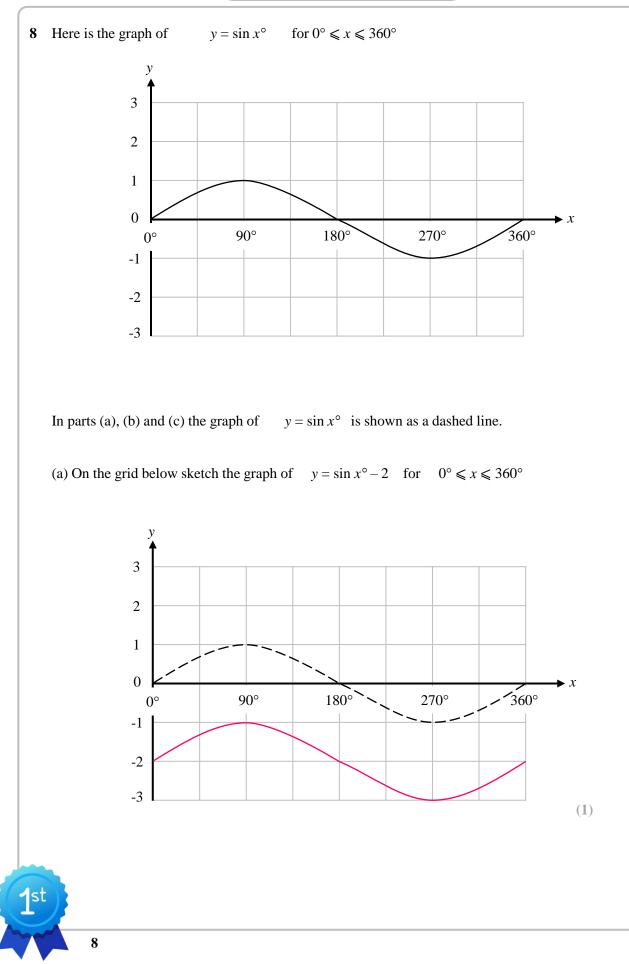


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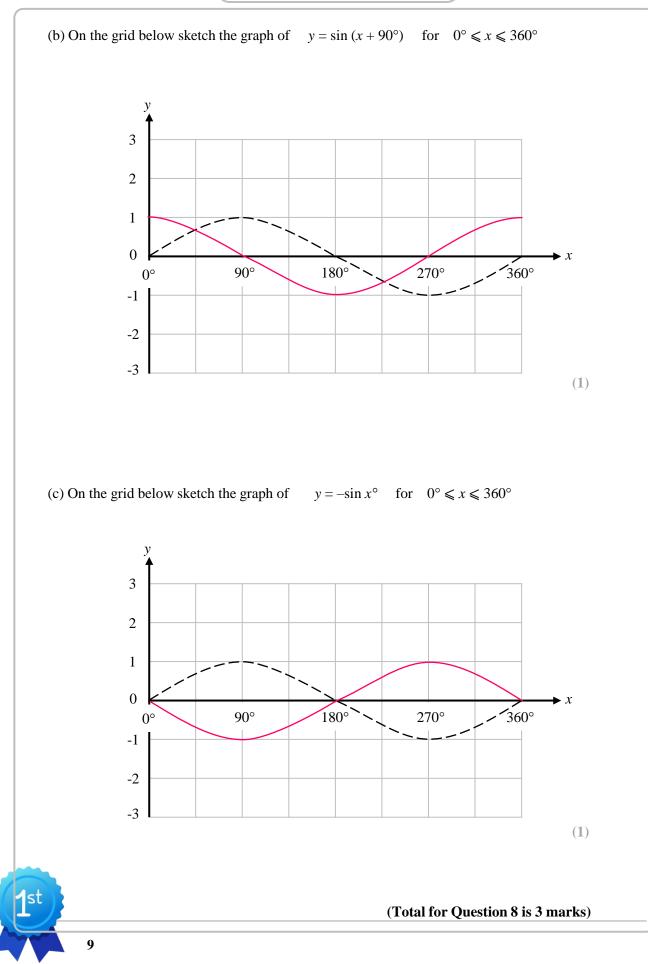


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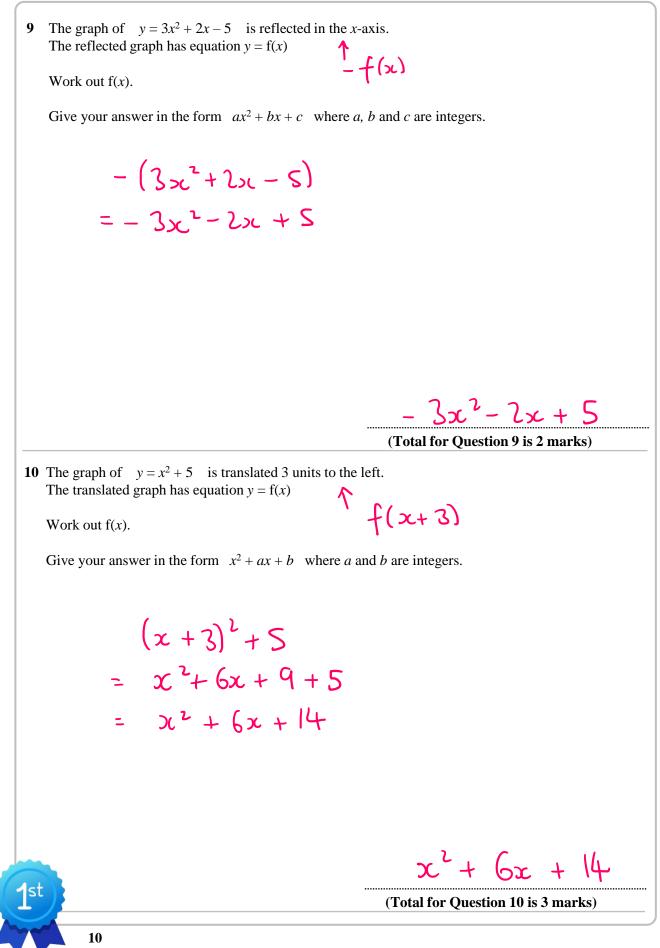


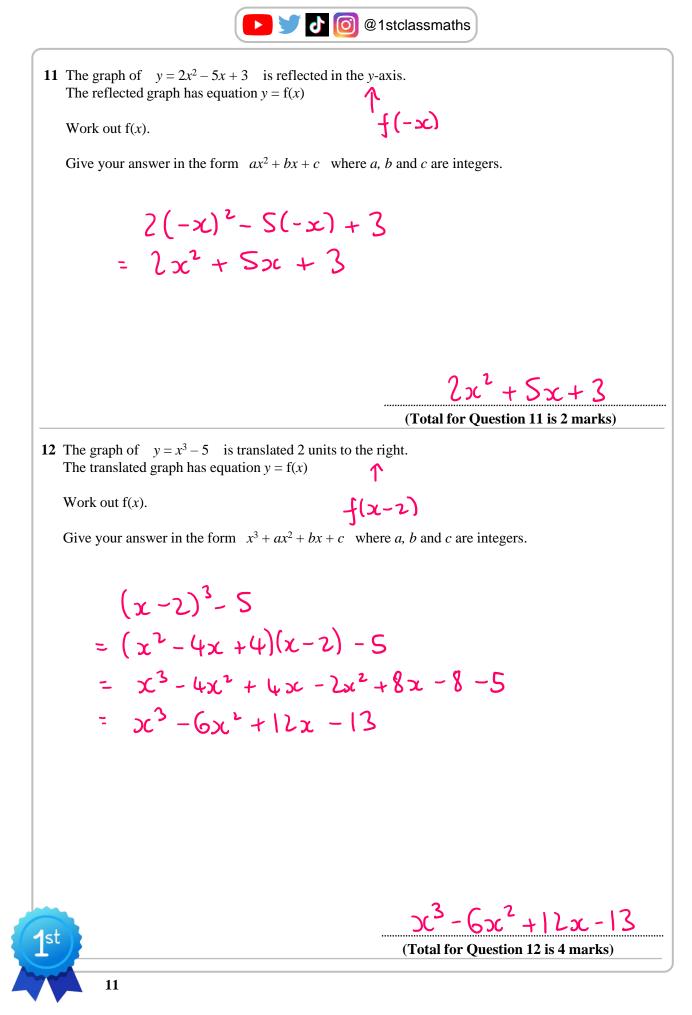




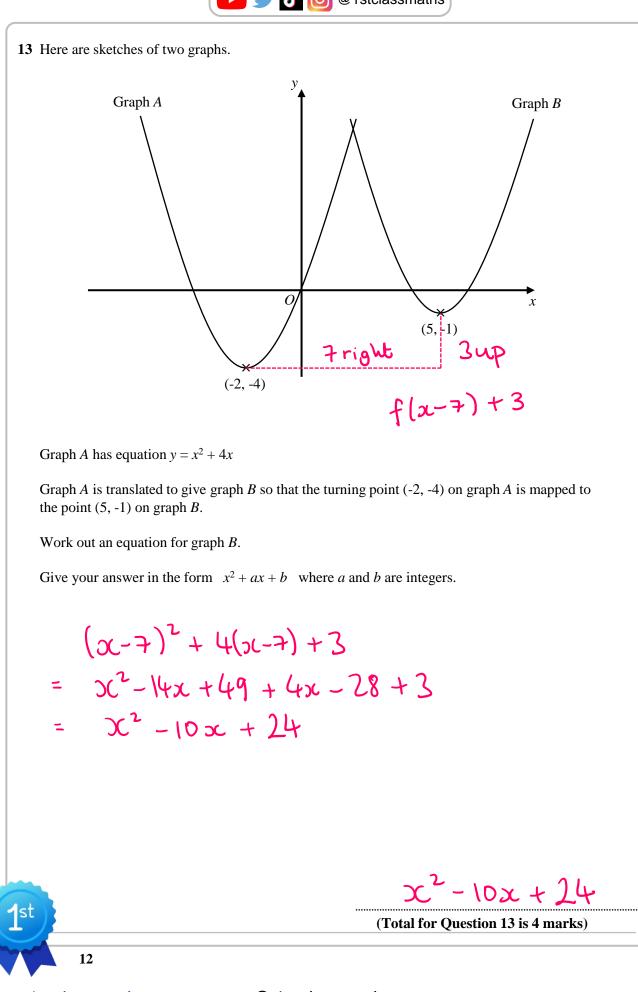


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14 The graph of $y = 10 - 2x^2$ is translated 3 units to the right and 1 unit up. The translated graph has equation y = f(x)

Work out f(x).

f(x-3)+1

Give your answer in the form $x^2 + ax + b$ where *a* and *b* are integers.

 $|0 - 2(x-3)^{2} + 1|$ = $|0 - 2(x^{2}-6x + 9) + 1|$ = $|0 - 2x^{2} + 12x - 18 + 1|$ = $-2x^{2} + 12x - 7$

 $-2x^{2}+12x-$

(Total for Question 14 is 4 marks)