Answers and mark guide

Q	Answer	Working	Marks
1	**4**	Substitute x = −1	1
2	**2**	Substitute x = 0	1
3	**2**	Substitute x = 0	1
4	**4**	Substitute x = −1	1
5	**7**	Substitute x = 2	1
6	**0, 1, 2, 3, 4**	Substitute each x-value in turn.	3
7	**−1, 2, 5, 8, 11**	Substitute each x-value in turn.	3
8	**−5, −2, 1, 4, 7**	Substitute each x-value in turn.	3
9	**4, 2, 0, −2, −4**	Substitute each x-value in turn.	3
10	**−1, 0, 1, 2, 3**	Substitute each x-value in turn.	3
11	**1**	The coefficient of x.	2
12	**(0, 3)**	Set x = 0.	2
13	**No**	When x = 3, y = 8	3
14	**x = 2/3**	Set y = 0 and solve.	3
15	**y = 2x + 8**	Same gradient, new y-intercept.	3
16	**y = 3x − 3; y = 9**	y = mx + c	4
17	**x = 4/3**	Set the two y-values equal.	4
18	**y = −x + 5**	Gradient = change in y ÷ change in x	4
19	**1**	Change in y ÷ change in x	4
20	**3**	Substitute the y-value and solve.	4

My score: _____ / 53 Questions 1–15 = 33 marks (Foundation focus)