Answers and mark guide

Q	Answer	Working	Marks
1	**(0, 6)**	Add the number to the y-coordinate.	3
2	**(3, −4)**	Subtract from y.	3
3	**(0, 0)**	f(x + k) moves the graph k units LEFT.	3
4	**(8, 8)**	f(x − k) moves the graph k units RIGHT.	3
5	**(2, 1)**	Reflection in the x-axis.	3
6	**(−2, −1)**	Reflection in the y-axis.	4
7	**(2, −2)**	Vertical stretch, scale factor 2.	4
8	**(1/2, 0)**	Horizontal squash: x ÷ 2.	4
9	**(2, 0)**	Horizontal stretch: x × 2.	4
10	**(4, 3/2)**	Vertical squash.	4
11	**(4, 9)**	Stretch then translate up.	5
12	**(3, 6)**	Left k, down k.	5
13	**(8, −8)**	Right k, then reflect in the x-axis.	5
14	**(5/2, 11)**	Squash horizontally then up.	5
15	**(−5, 10)**	Reflect in the y-axis then up.	5
16	**(−1, −1)**	Translate 3 left.	4
17	**(2, 4)**	Translate 5 up.	3
18	**(3, −4), now a minimum**	Reflect in the x-axis.	4
19	**x = 0.5 and x = 1.5**	x-coordinates ÷ 2	5
20	**A translation by the vector (3, 2)**	Right 3, up 2	4

My score: _____ / 80 Questions 1–15 = 60 marks (Foundation focus)