

Lesson 1.1 Worksheet

Complete each table.

1. Translate left 3 units and up 4 units

x	y	New x	New y
12	2		
-10	4		
3	0		
-4	-1		
-1	3		

2. Translate right 6 units and up 3 units

x	y	New x	New y
12	2		
-10	4		
3	0		
-4	-1		
-1	3		

3. Translate right 1 units and down 1 unit

x	y	New x	New y
0	-3		
-12	-2		
11	-1		
8	0		
7	1		

4. Translate left 8 units and down 2 units

x	y	New x	New y
0	-3		
-12	-2		
11	-1		
8	0		
7	1		

5. Reflect across the y - axis

x	y	New x	New y
-2	0		
-1	2		
3	-3		
4	-1		
-6	9		

6. Reflect across the x - axis

x	y	New x	New y
-2	0		
-1	2		
3	-3		
4	-1		
-6	9		

7. Vertical Stretch by a factor of $\frac{3}{2}$

x	y	New x	New y
-3	3		
-1	1		
1	2		
2	1		
3	2		

8. Horizontal compression by $\frac{1}{2}$

x	y	New x	New y
-3	3		
-1	1		
1	2		
2	1		
3	2		

9. Horizontal stretch by 3

x	y	New x	New y
3	0		
-6	1		
12	4		
8	-3		
-7	-9		

10. Vertical compression by $\frac{1}{3}$

x	y	New x	New y
3	0		
-6	1		
12	4		
8	-3		
-7	-9		