Transformations

Name _____ Date _____

1. $f(x) = |x|$; left 5, down 7 → _____

2. $f(x) = x^2$; left 6, up 6 → _____

3. $f(x) = |x|$; right 1, up 2 → _____

4. $f(x) = x^3$; stretch by 3, left 2, up 9 → _____

5. $f(x) = x^3$; left 1, up 1 → _____

6. $f(x) = \sqrt{x}$; stretch by 2, left 5, up 4 → _____

Transformations

7. $f(x) = \sqrt{x}$; stretch by 3, right 3, down 3 → _____

8. $f(x) = x^2$; stretch by 3, left 6, down 6 → _____

9. $f(x) = |x|$; left 4, down 2 → _____

10. $f(x) = x^2$; right 1, up 9 → _____

11. $f(x) = |x|$; stretch by 2, right 6, up 3 → _____

12. $f(x) = \sqrt{x}$; reflect, down 1 → _____

13. $f(x) = \sqrt{x}$; reflect, stretch by 2, left 2, up 8 → _____