Functions Review Team name:

Round 5

Suppose (6,1) is the point of the graph of $y = f(x)$. For each of the following, name a point on the graph then name the transformation.

1. $y = f(3x)$ (2, 1) H. Compress
2. $y = f(x+2)$ (4, 1) H. translation
3. $y = f(x)+5$ (6, 6) Vert trans.
4. $y = \frac{1}{2} f(x)$ (6, ½) Vert. Compress
5. $y = f(-x)$ (-6, 1) y-axis reflect
6. $y = f(x-7)$ (13, 1) V. trans
7. $y = 4f(x)$ (6, 4) V. Stretch
8. $y = f\left(\frac{1}{2}x\right)$ (12, 1) H. Stretch
9. $y = -f(x)$ (6, -1) X-axis reflect