

Name: key

Date: _____

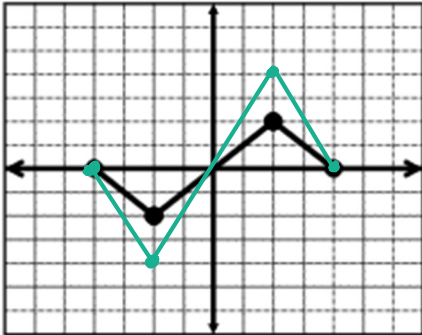
Period: _____

Transformations Review

1-6: Graph the function $y = g(x)$. 2 pts each

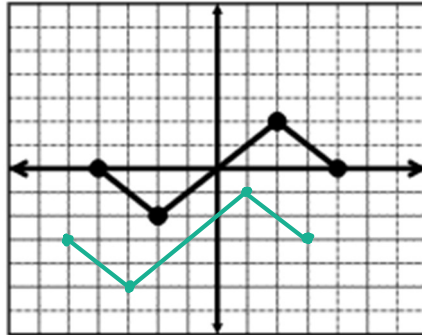
1. $g(x) = 2f(x)$

vertical stretch
by 2



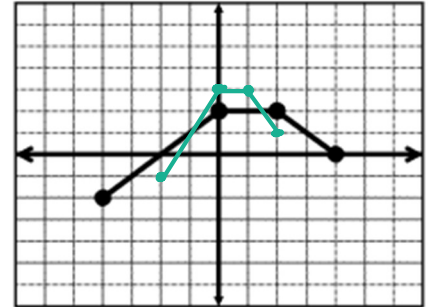
2. $g(x) = f(x+1) - 3$

- shift left 1
- shift down 3



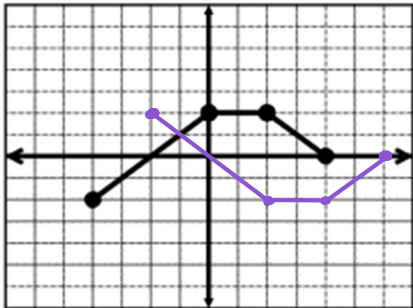
3. $g(x) = f(2x) + 1$

- horizontal shrink by $\frac{1}{2}$
- shift up 1



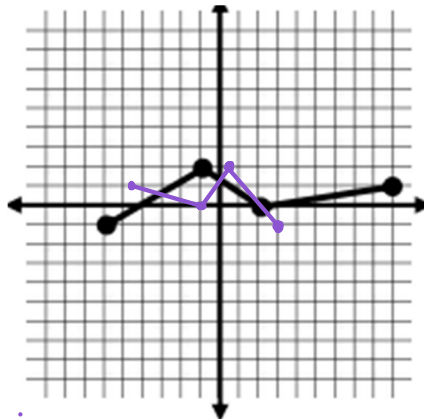
4. $g(x) = -f(x-2)$

- shift right 2
- reflect over x-axis



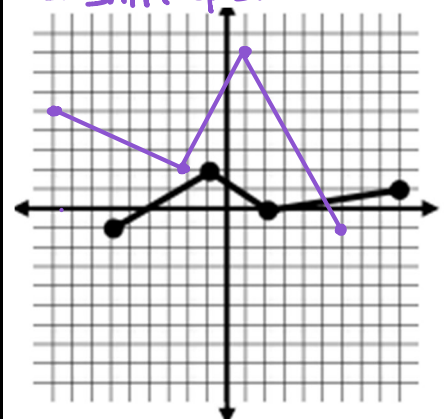
5. $g(x) = f(-2x)$

- horizontal shrink by $\frac{1}{2}$
- reflect across y-axis



6. $g(x) = 3f(-x) + 2$

- reflect across y-axis
- vertical stretch by 3
- shift up 2



7-9: Describe each transformation in words. 2 pts. each

7. $g(x) = f(-\frac{1}{3}x) + 4$

- horizontal stretch by 3
- reflect across y-axis
- shift up 4

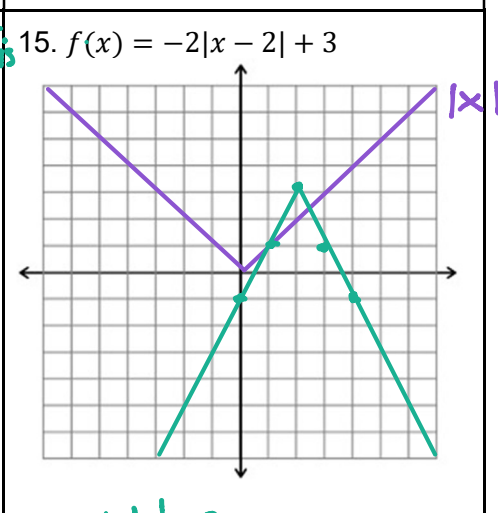
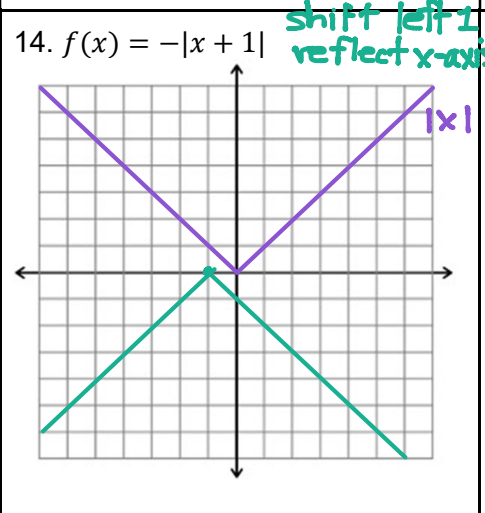
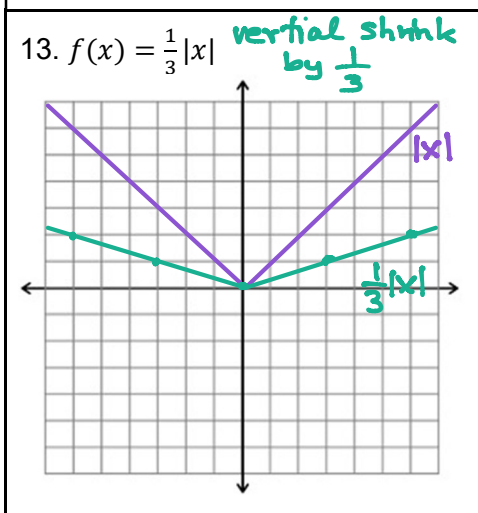
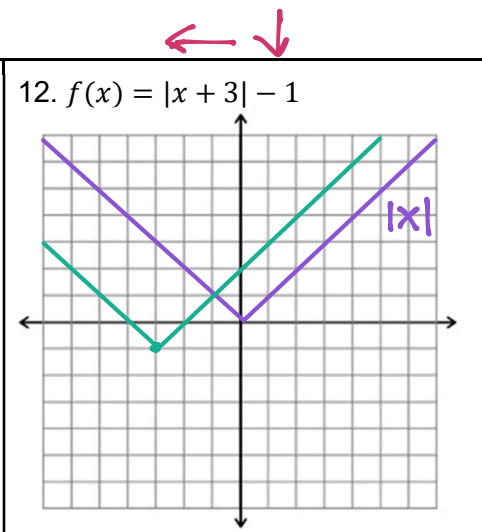
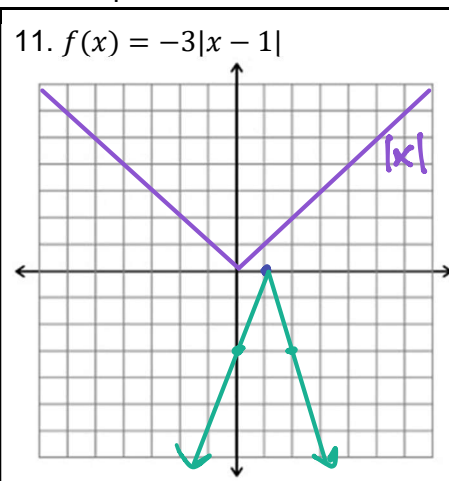
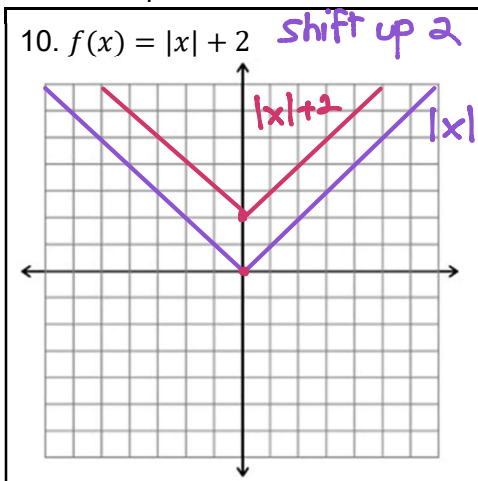
8. $g(x) = \frac{1}{5}f(x) + 2$

- vertical shrink by $\frac{1}{5}$
- shift up 2

9. $g(x) = -f(x) - 4$

- reflect across
x-axis
- shift down 4

10-15: Graph each absolute value function. 2 pts. each



- right 2
- vertical stretch by 2
- reflect x-axis
- up 3