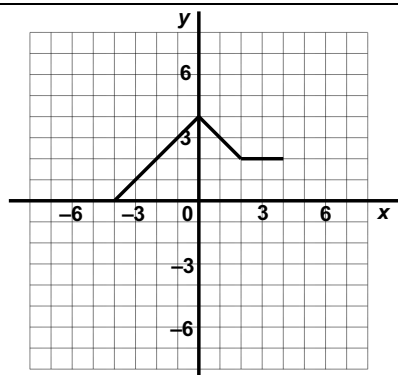


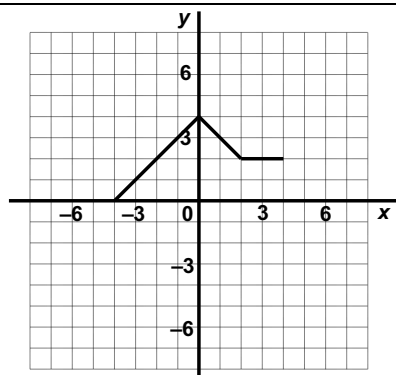
Combinations of Transformations (2)

Date:

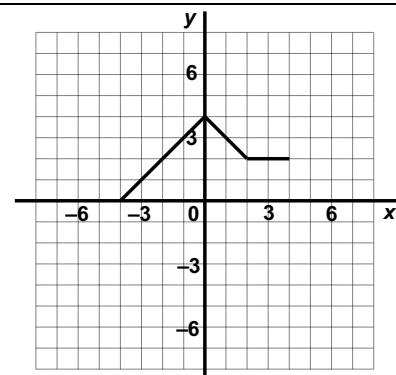
**REMEMBER** — *Stretch and reflect FIRST, then slide LAST.*



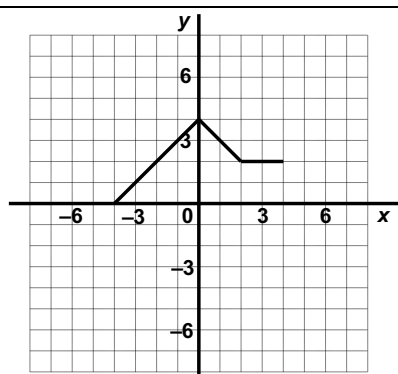
1.  $y = \frac{1}{2}f(x) - 3$



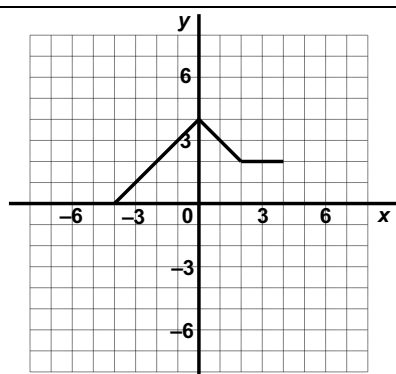
2.  $y = f(2x) + 3$



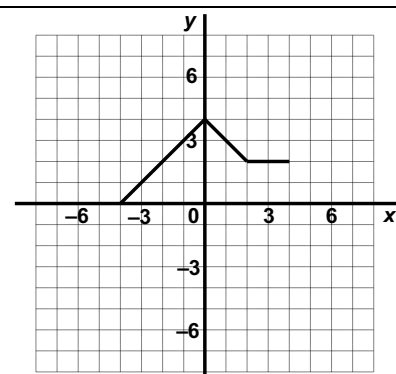
3.  $y = -f(x) + 1$



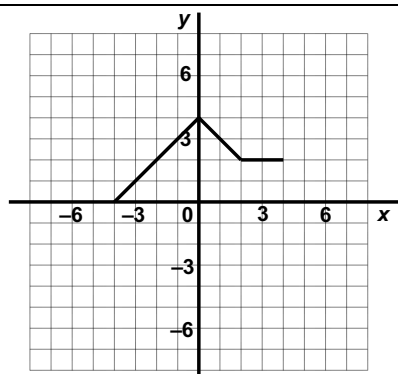
4.  $y = f(-x) - 6$



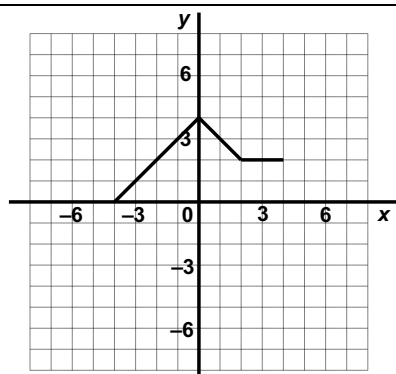
5.  $y = f(x - 4) + 2$



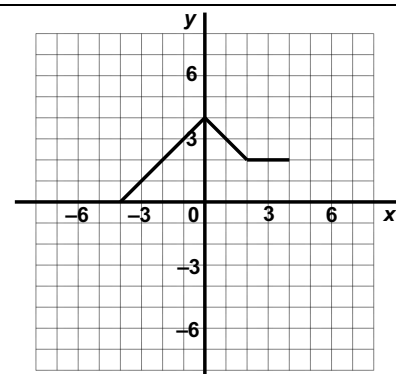
6.  $y = -f(x + 2) - 4$



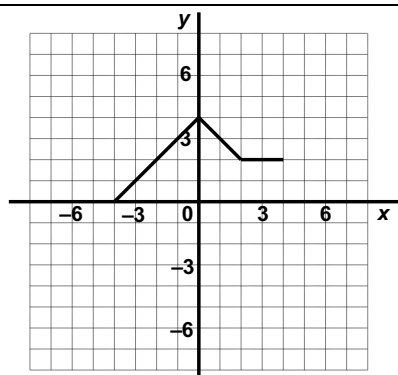
7.  $y = -2f(x)$



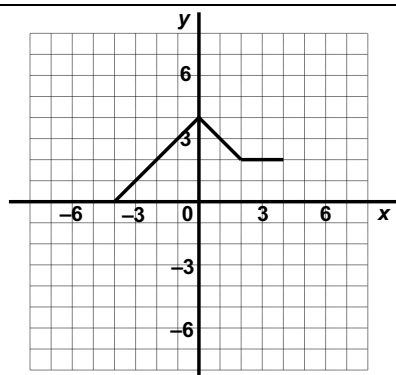
8.  $y = f\left(-\frac{1}{2}x\right)$



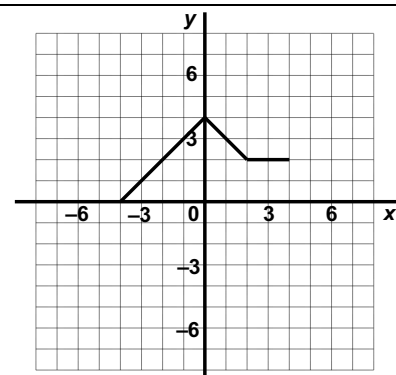
9.  $y = -f\left(\frac{1}{2}x\right)$



10.  $y = 2f(-x)$



11.  $y = 2f\left(-\frac{1}{2}x\right)$



12.  $y = -\frac{1}{2}f(-2x)$