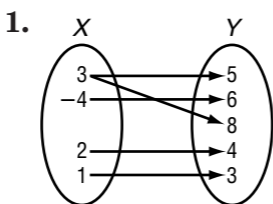
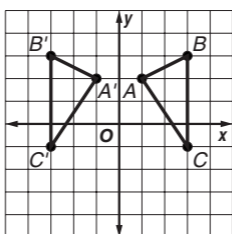




1.  $(-3, 0)$ ; none
2.  $(2, -4)$ ; IV
3. rotation
4. dilation
5.  $A'(-1, 2), B'(-3, 3),$   
 $C'(-3, -1)$



Domain:  $\{-4, 1, 2, 3\}$   
Range:  $\{3, 4, 5, 6, 8\}$

2.  $\{(-5, 2), (-3, -2),$   
 $(1, 1), (4, -3)\};$   
 $\{(2, -5), (-2, -3),$   
 $(1, 1), (-3, 4)\}$
3.  $\{(-2, -11), (2, 5)\}$
4.  $\{(-2, 0), (-1, 1.5),$   
 $(0, 3), (2, 6), (3, 7.5)\}$
5.  $\{(-3, -2), (-2, 0),$   
 $(-1, 2), (0, 4), (1, 6)\}$