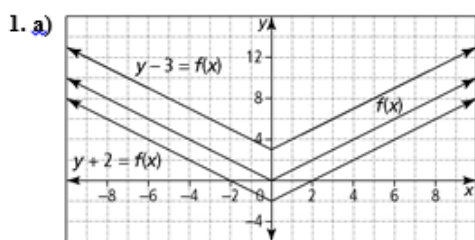
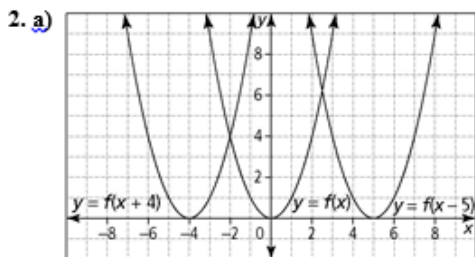


BLM 1-2 Section 1.1 Extra Practice



b) $y - 3 = f(x)$ is a translation of $f(x)$ 3 units up;
 $y + 2 = f(x)$ is a translation of $f(x)$ 2 units down



b) $y = f(x + 4)$ is a translation of $f(x)$ 4 units left, and
 $y = f(x - 5)$ is a translation of $f(x)$ 5 units right

3. a) $(x, y) \rightarrow (x + 3, y + 6)$ b) $(x, y) \rightarrow (x, y - 4)$

c) $(x, y) \rightarrow (x - 2, y + 4)$ d) $(x, y) \rightarrow (x + 1, y - 2)$

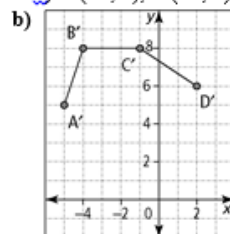
4. a) translation 2 units left, 3 units up

b) translation 5 units right, 7 units down

c) translation 4 units left

d) translation 6 units up

5. a) $A'(-5, 5)$, $B'(-4, 8)$, $C'(-1, 8)$, $D'(2, 6)$



6. a) translation left 1 unit, down 4 units

b) $y + 4 = f(x + 1)$

7. a) $k = 2$, $h = -3$; $y - 2 = f(x + 3)^2$

b) $k = -1$, $h = 5$; $y + 1 = f|x - 5|$

c) $k = -5$, $h = 9$; $y + 5 = g(x - 9)$

d) $k = 9$, $h = -4$; $y - 9 = f\left(\frac{1}{x} + 4\right)$