

**Translation - Function**

L1S1

If  $g(x)$  is a translated function of  $f(x)$ , then find  $g(x)$ .

1)  $f(x) = 2x^2 + 4x + 7$ ; shifts 10 units up.

2)  $f(x) = 4(x - 4)^2 - 1$ ; shifts 2 units right.

3)  $f(x) = 5x^2 + 6x - 11$ ; shifts 8 units down.

4)  $f(x) = -2(x + 1)(x + 3)$ ; shifts 4 units left.

5)  $f(x) = (4x - 2)(3x - 1)$ ; shifts 1 unit up.

6)  $f(x) = -(2x + 3)^2 + 5$ ; shifts 3 units left.