

**Translation - Function**

L2S2

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

1)  $f(x) = (-x - 8)(x + 3)$ ; shifts 5 units left and 2 units up.

2)  $f(x) = 3x^2 + 2x$ ; shifts 3 units right and 4 units down.

3)  $f(x) = -5(x - 2)(x + 1)$ ; shifts 4 units right and 3 units down.

4)  $f(x) = x^2 + 3x - 4$ ; shifts 2 units right and 1 unit down.

5)  $f(x) = (2x - 3)(x + 2)$ ; shifts 3 units right and 2 units down.

6)  $f(x) = 4(x - 5)(-x - 6)$ ; shifts 2 units down and 6 units right.

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