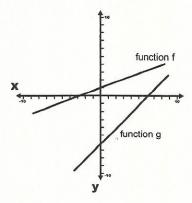
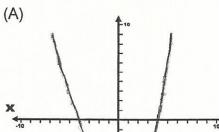
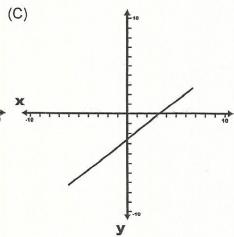
Quiz: Graphs Involving Operations on Functions

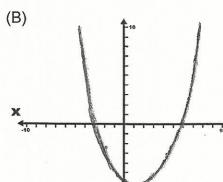
1. The following graph represents functions f and g:

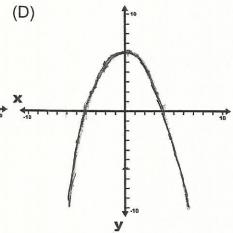


Which one of the following graphs could represent $f \cdot g$?









2. Functions f and g are defined as follows:

$$f(x) = a_1 x^2 \text{ where } a_1 > 0$$

$$g(x) = a_2x^2 + c$$
 where $a_2 = -a_1$ and $c < 0$

Which one of the following graphs could represent f + g ?

