



Product of Two Linear Functions

• Example 1

Given $f(x) = x - 1$ and $g(x) = x + 5$, find $f \cdot g$.

$$(f \cdot g)(x) = f(x) \cdot g(x) = (x - 1)(x + 5) = x^2 + 5x - x - 5 = x^2 + 4x - 5$$

● ● ● CHECK YOURSELF 1

Given $f(x) = x - 3$ and $g(x) = x + 2$, find $f \cdot g$.

● ● ● CHECK YOURSELF ANSWER

1. $(x - 3)(x + 2) = x^2 - x - 6$.

4.19 Exercises

Name _____

Section _____

Date _____

A N S W E R S

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Find $f \cdot g$.

1. $f(x) = 2x - 1$ $g(x) = x - 3$

2. $f(x) = -x + 3$ $g(x) = x + 4$

3. $f(x) = 3x + 2$ $g(x) = 2x - 1$

4. $f(x) = -3x + 5$ $g(x) = -x + 2$

5. $f(x) = x - 1$ $g(x) = x + 1$

6. $f(x) = x + 2$ $g(x) = 2x + 4$