

4.20

Quotient of Two Linear Functions

• Example 1

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

$$\left(\frac{f}{g}\right)(x) = \frac{f(x)}{g(x)} = \frac{x - 1}{x + 5}$$

● ● ● CHECK YOURSELF 1

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

● ● ● CHECK YOURSELF ANSWER

1. $\frac{x - 3}{x + 2}$.

4.20 Exercises

Name _____

Section _____

Date _____

A N S W E R S

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Find $\frac{f}{g}$.

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