

Let $f(x) = 3x + 6$, $g(x) = 2x$, and $h(x) = 18x$. Perform the indicated operation.

1. $\left(\frac{f}{h}\right)(x)$

2. $\left(\frac{g}{f}\right)(x)$

3. $\left(\frac{f}{f}\right)(x)$

4. $\left(\frac{g}{h}\right)(x)$

5. $(g - f)(x)$

6. $(h - g)(x)$

7. $(g \cdot g)(x)$

8. $(f - h)(x)$

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Let $f(x) = 4x$, $g(x) = 8x + 2$, $h(x) = 2x - 4$, and $k(x) = 6$.
Perform each division. .

$$9. \left(\frac{f}{g} \right)(x)$$

$$10. \left(\frac{h}{f} \right)(x)$$

$$11. \left(\frac{g}{k} \right)(x)$$

$$12. \left(\frac{g}{f} \right)(x)$$

$$13. \left(\frac{k}{f} \right)(x)$$

$$14. \left(\frac{h}{h} \right)(x)$$

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Answers:

$\frac{2x}{3x+6}$	$\frac{1}{9}$	$\frac{3}{2x}$	1	$\frac{2x}{4x+1}$	$\frac{4x+1}{2x}$	$-x-6$
16x	$\frac{x-2}{2x}$	$-15x+6$	$4x^2$	1	$\frac{4x+1}{3}$	$\frac{x+2}{6x}$

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