

B-Review Sec 6.2, 6.5 and Complex Fractions

Graph the function. State the domain and range.

1. $f(x) = \frac{-4}{x} - 3$

2. $h(x) = \frac{2}{x-2} + 3$

3. $g(x) = \frac{2x+4}{x-2}$

4. $h(x) = \frac{-x-3}{x+2}$

Simplify.

5. $\frac{\frac{7}{2x}}{\frac{1}{x} - \frac{5}{2}}$

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

Find the inverse if it exists.

7. $g(x) = \frac{3}{x-8}$

8. $f(x) = \frac{-6}{x} + 2$

Solve.

9. $\frac{-6}{x-5} = \frac{4}{x+3}$

10. $\frac{1}{x^2+x} = \frac{3}{x+1}$

11. $\frac{n+5}{n+8} = 1 + \frac{6}{n+1}$

12. $\frac{x}{x+2} + \frac{2}{x^2+5x+6} = \frac{5}{x+3}$