

7.5 Practice A

In Exercises 1–3, solve the equation by cross multiplying. Check your solution(s).

1. $\frac{3}{4x} = \frac{1}{x-2}$

2. $\frac{4}{x+2} = \frac{6}{x-2}$

3. $\frac{-3}{x+1} = \frac{x-5}{x-5}$

In Exercises 7–12, solve the equation by using the LCD. Check your solution(s).

7. $\frac{4}{3} + \frac{2}{x} = 4$

8. $\frac{5}{2x} + \frac{1}{4} = \frac{9}{2x}$

9. $\frac{x-2}{x-3} + 3 = \frac{2x}{x}$

10. $\frac{4}{x-5} + \frac{1}{x} = \frac{x-1}{x-5}$

11. $\frac{8}{x} + 3 = \frac{x+8}{x-4}$

12. $\frac{12}{x^2-2x} - \frac{3}{x-2} = \frac{3}{x}$

In Exercises 1–3, solve the equation by cross multiplying. Check your solution(s).

1. $\frac{3}{x+2} = \frac{5}{x-2}$

2. $\frac{2}{x-4} = \frac{x-3}{x-1}$

3. $\frac{x-5}{4} = \frac{x^2-5}{x+4}$

In Exercises 7–12, solve the equation by using the LCD. Check your solution(s).

7. $\frac{3}{4x} + \frac{1}{8} = \frac{7}{4x}$

8. $\frac{5}{x-6} + \frac{1}{x} = \frac{x-1}{x-6}$

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

10. $\frac{16}{x^2-4x} - \frac{8}{x-4} = \frac{4}{x}$

11. $\frac{x+1}{x+2} + \frac{1}{x} = \frac{2x+1}{x+2}$

12. $\frac{4}{x} - 1 = \frac{4}{x+2}$