

8-6 Standardized Test Prep

Solving Rational Equations

Gridded Response

For Exercises 1–8, what are the solutions of each rational equation? Enter your answer in the grid provided. If necessary, enter your answer as a fraction.

1. $\frac{3 - x}{6} = \frac{6 - x}{12}$

2. $\frac{2}{6x + 2} = \frac{x}{3x^2 + 11}$

3. $\frac{3}{2x - 4} = \frac{5}{3x + 7}$

4. $\frac{2}{x + 2} + \frac{5}{x - 2} = \frac{6}{x^2 - 4}$

5. $\frac{7}{x^2 - 5x} + \frac{2}{x} = \frac{3}{2x - 10}$

6. $\frac{1}{4 - 5x} = \frac{3}{x + 9}$

7. $\frac{7}{2} = \frac{7x}{8} - 4$

8. $4 + \frac{2y}{y - 5} = \frac{8}{y - 5}$

Answers

1.

2.

3.

4.

5.

6.

7.

8.