

Name _____

Algebra 2CP Worksheet 7-2 Solving Rational Equations

Solve each equation – check for restrictions!!

_____ 1. $\frac{5}{y+3} - 2 = \frac{7}{y+3}$

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

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

_____ 5. $\frac{k}{k+1} = \frac{3}{k^2-k-2} - \frac{k}{k-2}$

_____ 3. $\frac{5}{x+7} + 1 = \frac{4}{x+7}$

_____ 6. $\frac{10}{x^2-4} = 1 - \frac{1}{x+2}$

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_____ 7. $\frac{25}{x} = 10 - x$

_____ 10. $\frac{x-3}{2} = \frac{1}{x-4}$

_____ 8. $\frac{2n-3}{2} = \frac{3}{4} + \frac{n-4}{8}$

_____ 11. $\frac{2m-1}{3m+1} = \frac{m-1}{m+1}$

_____ 9. $\frac{13}{x^2-9} + \frac{3}{3-x} = \frac{2}{x+3}$

_____ 12. $\frac{y+5}{y-4} - \frac{5}{y-2} = \frac{7y-4}{y^2-6y+8}$