

10-2 Solving Rational Equations

Name: _____

Time Start: _____ Finish: _____

Total Time = _____

Solve for the variable making sure the answer is in simplified form.

_____ 1. $\frac{3}{n} = \frac{2}{n+4}$

_____ 2. $\frac{-4+n}{5} = \frac{n+2}{7}$

_____ 3. $\frac{3}{2n} + \frac{5}{6n^2} = \frac{1}{n}$

_____ 4. $\frac{3}{2n^2} + \frac{6}{5n} = \frac{3}{n^2}$

_____ 5. $\frac{5}{4n} + \frac{9}{6n^2} = \frac{1}{2n}$

_____ 6. $\frac{2}{n} + \frac{4}{n+3} = \frac{4}{n}$

_____ 7. $\frac{3}{2n^2} + \frac{6}{n^3} = \frac{5}{3n^2}$

_____ 8. $\frac{2}{n} + \frac{4}{n+2} = \frac{6}{n+4}$

_____ 9. $\frac{3}{n+2} + \frac{5}{n+4} = \frac{6n+28}{n^2+6n+8}$

_____ 10. $\frac{2}{n+2} + \frac{4}{n+6} = \frac{2}{n^2+8n+12}$

_____ 11. $\frac{1}{n} + \frac{12}{n^2+3n-10} = \frac{1}{n^2-2n}$

_____ 12. $\frac{1}{x^2-5x} + \frac{x}{x^2-11x+30} = \frac{1}{x}$