

4.5 Solving rational expressions / proportions

Date _____ Period _____

Solve each proportion.

1) $\frac{4}{2} = \frac{5}{v}$

2) $\frac{9}{9x} = \frac{7}{9}$

3) $\frac{3}{8} = \frac{k}{4}$

4) $\frac{12}{9} = \frac{k}{2}$

5) $-\frac{4}{n+11} = \frac{8}{n-9}$

6) $\frac{9}{k+1} = -\frac{5}{k-5}$

7) $\frac{m-9}{6} = \frac{m-6}{3}$

8) $\frac{12}{n+5} = -\frac{3}{n+7}$

9) $\frac{a-8}{8} = \frac{a-6}{5}$

10) $\frac{a-9}{a+3} = \frac{7}{3}$

11) $\frac{5b-4}{5b-12} = \frac{5}{2}$

12) $-\frac{3}{10} = \frac{-2x-9}{x-5}$

13) $\frac{2}{2r-4} = \frac{7}{-r-5}$

14) $\frac{2}{4} = \frac{4x-2}{x-7}$