

Rational Equations #2 Math 9 Name: _____

1) Solve the following (reduce fractions where needed)

a) $\frac{3x}{4} + 2 = \frac{x}{8} - 5$

b) $\frac{x}{4} - \frac{1}{3} = \frac{5x}{12} + 9$

c) $\frac{2x}{15} - \frac{3}{5} = \frac{x}{3} + \frac{4}{5}$

d) $\frac{2x}{21} = \frac{x}{3} - \frac{1}{7}$

e) $\frac{11x}{30} = \frac{5}{3} - \frac{x}{10}$

f) $\frac{9x}{4} - \frac{2}{5} = \frac{3x}{20} + \frac{1}{10}$

g) $\frac{9x}{5} - \frac{1}{2} = \frac{3x}{10}$

h) $\frac{7x}{4} + \frac{7x}{2} = 12 + \frac{x}{8}$

i) $6 - \frac{5x}{3} = \frac{3x}{7}$

j) $3x - \frac{1}{9} = \frac{3x}{4}$

k) $\frac{-7x}{5} - 7 = \frac{9x}{10} + 6$

l) $\frac{5x}{2} = \frac{4x}{3} - \frac{7}{6}$

m) $-\frac{x}{2} + \frac{3x}{4} = \frac{3}{4} - x$

n) $\frac{x}{2} - 2 = \frac{3x}{16} + 1$

o) $\frac{x}{5} - \frac{x}{4} = \frac{13}{2} + \frac{x}{20}$

p) $\frac{5x}{2} - \frac{4}{3} = \frac{-7x}{6}$

q) $\frac{4x-5}{3} + \frac{x+1}{5} = 4$

r) $\frac{2x-10}{5} + \frac{x+1}{2} = \frac{3}{5}$

Extend your skills and strive for excellence!up for a challenge??

Solve: a) $\frac{5(3x-2)}{7} + 10 = \frac{x+1}{14}$

b) $\frac{3(5x-11)}{2} = \frac{4(x+3)}{5} + \frac{3}{10}$