Practice worksheet | Algebra

Equations with algebraic fractions and rational coefficients

Name: _____ Date: _____

6 questions | 14 marks

1. Solve $\frac{x}{3} + \frac{1}{2} = \frac{7}{6}$. [2 marks]

2. Solve $\frac{5}{x-2} = 1$. [2 marks]

3. Solve $\frac{2}{x+1} = \frac{3}{x+4}$. [2 marks]

4. Solve $\frac{x-1}{x+2} = \frac{-3}{x+2}$. [2 marks]

5. A cost of 72 dollars is shared equally. Adding two people reduces each share from $72/n$ to $72/(n+2)$. If the original share is 12 dollars, find n and the new share. [3 marks]

6. Solve $\frac{2x+4}{x+2} = 2$ and state the full solution set. [3 marks]