Practice worksheet | Algebra

Algebraic fractions and restrictions

Name: _____ Date: _____

6 questions | 14 marks

1. State the restriction for $\frac{7}{x-4}$. [2 marks]

2. State all restrictions for $\frac{x+1}{x(x+2)}$. [2 marks]

3. Simplify $\frac{12a}{18a}$, retaining its restriction. [2 marks]

4. Simplify $\frac{4(x-5)}{2(x-5)}$, retaining its restriction. [2 marks]

5. Explain why $\frac{p+6}{p}$ is not equal to 7 for every allowed p. Give a counterexample. [3 marks]

6. A cost model is $C = \frac{20n+40}{n}$ dollars per person. Simplify it and state a sensible domain for n. [3 marks]