Practice worksheet | Functions and straight-line graphs

Domain and range

Name: _____ Date: _____

6 questions | 12 marks

1. State the real domain of $f(x) = \frac{5}{x+3}$. [2 marks]

2. State the real domain of $g(x) = \sqrt{7-2x}$. [2 marks]

3. Find the range of $p(x) = -(x+2)^2 + 9$ for all real x. [2 marks]

4. Find the range of $q(x) = 3x - 1$ on $2 \leq x \leq 5$. [2 marks]

5. Simplify $\frac{x^2 - 9}{x - 3}$ and retain its original domain restriction. [2 marks]

6. A square has perimeter $P = 4s$. State a sensible domain and range when side length s is measured in centimetres. [2 marks]