Practice worksheet | Algebra

Substitution and rearranging formulas

Name: _____ Date: _____

6 questions | 14 marks

1. Evaluate $4a - 3b$ for $a = 5$, $b = 2$. [2 marks]

2. Evaluate $x^2 + 2x$ for $x = -4$. [2 marks]

3. Make w the subject of $P = 2l + 2w$. [2 marks]

4. Make r the subject of $C = 2\pi r$. [2 marks]

5. The formula $s = ut$ relates distance s, constant speed u and time t, where $u \neq 0$. [3 marks]

(a) Make t the subject. [2 marks]

(b) Find t for $s = 84$ m and $u = 7$ m/s. [1 mark]

6. Make x the subject of $ax + b = c$. State a restriction. [3 marks]