Algebra: Quadratics, Rearranging Formulae and Identities
Non-Calculator 10 minute test 1

Answer all questions.

1 (a) Expand $x(3x - 5)$

[2 marks]

Answer _____

1 (b) Factorise $6xy - 5x^2$

[1 mark]

Answer _____

2 Simplify

[3 marks]

2 (a) $a^{30} \times a^{10}$

Answer _____

2 (b) $\frac{a^{30}}{a^{10}}$

Answer _____

2 (c) $(a^{30})^{10}$

Answer _____

3 Given that $R = 4p^2 - 2q^2$

work out the value of R when $p = 3$ and $q = -4$

[2 marks]

Answer _____

4 Rearrange $y = 5x - 4$ to make x the subject.

[2 marks]

Answer _____

5 Simplify $\left(\sqrt{3} + 1\right)^2$

[2 marks]

Answer _____