

MAP4C Midterm Review

amous4

April 2017

1 Introduction

Unit 1 - Algebra

$$a) = P^2 + P - 20$$

$$b) = n^2 + 10n + 16$$

$$c) = m^2 - 4m - 21$$

$$d) = w^2 - 10w - 24$$

$$e) = 10x^2 - 21x + 12$$

$$f) = 2y^2 - y - 45$$

$$g) = 12a^2 + 7a + 1$$

$$h) = x^2 - 3x - 28$$

$$i) = x^2 - 36$$

$$j) = x^2 + 4x + 4$$

$$k) = y^2 - 121$$

$$l) = z^2 - 10z + 25$$

2

$$a) = 12x^2 - 44x + 40$$

$$b) = x^2 + x - 26$$

3

$$a) = (2x - 5)(x + 1)$$

$$b) = (5x)(8x + 3) - (4x - 1) - (2x - 1)$$

4

$$a) = (x - 6)(x - 3)$$

$$b) = 7(3w^2 - 4w + 5)$$

$$c) = 8x(2 + 3x)$$

$$d) = 5a(3a^2 - 4a + 5)$$

$$e) = 10m(2m - 3)$$

$$\begin{aligned}
f) &= 9k^3(3 - 4k^2) \\
g) &= (n - 12)(n + 12) \\
h) &= (x - 9)(x + 9) \\
i) &= 5(m + 4)(m - 4) \\
j) &= 10(x + 3)(x - 3) \\
k) &= (x + 2)(x + 3) \\
l) &= (a + 5)(a - 6) \\
m) &= (x + 5)(x - 2) \\
n) &= (m - 5)(m - 4) \\
o) &= (x + 9)(x - 3) \\
p) &= 3(x + 5)(x - 7) \\
q) &= (x + 3)(5x + 2) \\
r) &= (x - 2)(5x + 3) \\
s) &= (3x + 1)(x + 3) \\
t) &= (2x + 1)(x + 4)
\end{aligned}$$

5

$$\begin{aligned}
a) &x = 5, x = 2 \\
b) &x = 4, x = -3 \\
c) &x = 5, x = -5 \\
d) &x = 5, x = -2 \\
e) &x = -5, x = -5 \\
f) &x = 9, x = 9
\end{aligned}$$

6

Unit 2 - Budgets

$$1) =$$