

## Topic 1 Algebra 1 (Post-TT) [20] MARKSCHEME

1.

$a + 20a^2$	<b>B1</b>
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2.

Correct substitution:  $P = 3(6 \times (-2) + 7)$  or  $-12$  seen [M1]  
 $P = -15$  [A1]

3.

$7(x + 2)$  B1  
*allow one error*

[1]

4.

(a)  $3x$  or  $(1)y$  seen B1  
 $3x + y$  B1  
 (b) (i)  $4m - 4$  B1  
 (ii)  $p^2 + 3p$  B1  
*Do not accept  $p^3$*

[4]

5.

Correct substitution:  $y = 4(-3)^2$  or  $9$  seen [M1]  
 $y = 36$  [A1]

6.

$4x^3 + 20x$  B2  
*B1 one correct term*

[2]

7.

$r^4(r^2 - 3)$  B1

[1]

8.

$m^2 + 10m + 21$	M1 for at least 3 terms out of a maximum of 4 correct from expansion  A1
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9.

$5x(x + 4)$  B1

[1]

10.

$2a + 1$	<b>4</b> 1 AO1.3b 2 AO3.1b 1 AO3.2	<b>M1</b> for $a + 2 + 3a + 3 + 4a - 1$ <b>M1</b> for collecting terms <b>M1</b> for dividing <i>their</i> ' $8a + 4$ ' by 4
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