DBE/November 2015

## QUESTION 1

1.1 Solve for x in each of the following:

$$1.1.1 x^2 + x - 12 = 0 (3)$$

1.1.2 
$$\sqrt{2x+1} = x-1$$
 (5)

1.1.3 
$$2^{v\sqrt{s}} = 2^{27}$$
 (4)

$$1.1.4 x^2 - 2x - 8 < 0 (3)$$

1.2 Given: 
$$f(x) = 5x^2 + 6x - 7$$

1.2.1 Solve for x if 
$$f(x)=0$$
 (correct to TWO decimal places). (4)

1.2.2 Hence, or otherwise, calculate the value of 
$$d$$
 for which  $5x^2 + 6x - d = 0$   
has equal roots (3)

# **Grade 11 Pure Maths November 2015 Memorandum**

Michal Rosen-Zvi

Grade	11	<b>Pure</b>	<b>Maths</b>	<b>November</b>	2015	<b>Memorandum:</b>
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