Registration No: ITT/2019/029

Name: G.A. Dasun Navodya Dilshan

CMT - 1303 - Fundamentals of Mathematics for Technology

Problem Set 3

(1) 
$$x^2 + kx - 3 = 0$$

Roots &

$$\infty^2 + kx - 3 = 0$$
 has distinct real roots.  $\Delta > 0$ 

$$\alpha + \beta = -\frac{b}{a} \qquad \alpha \beta = \frac{c}{a}$$

$$= -3$$

$$= \frac{-k}{1}$$

$$= -k$$

$$= -3$$

$$x = 2 \times + \beta$$
 or  $x = \times + 2\beta$ 

$$(\alpha - (2\alpha + \beta))(\alpha - (\alpha + 2\beta)) = 0$$

$$(x - (2\alpha + \beta))(x - (\alpha + 2\beta)) + (2\alpha + \beta)(\alpha + 2\beta)$$

$$x^{2} - x(\alpha + 2\beta) - x(2\alpha + \beta) + (2\alpha + \beta)(\alpha + 2\beta)$$

$$x^{2} - x(\alpha + 2\beta + 2\alpha + \beta) + 2\alpha^{2} + \alpha\beta + 4\alpha\beta + 2\beta^{2}$$

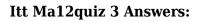
$$x^{2} - x(\alpha + 2\beta + 2\alpha + \beta) + 2\alpha^{2} + \alpha\beta + 4\alpha\beta + 2\beta^{2}$$

$$x^2 - x(\alpha + 2\beta + 2\alpha + \beta) + 2\alpha + 4\alpha + \beta$$
  
 $x^2 - 3x(\alpha + \beta) + 2(\alpha + \beta)^2 - 2\alpha\beta) + 5\alpha\beta$   
 $x^2 - 3x(\alpha + \beta) + 2(\alpha + \beta)^2 - 2(-3)) + 5x(-3)$ 

$$x^2 - 3x(\alpha + \beta) + 2(\alpha + \beta) - 2(-3) + 5 \times (-3)$$
 $x^2 - 3x(-\kappa) + 2(-\kappa)^2 - 2(-3) + 5 \times (-3)$ 

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