

1. Fully factor the following: (2 marks each)

a)  $12a^3 - 75a$   
 $= 3a(4a^2 - 25)$   
 $= 3a(2a + 5)(2a - 5)$

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

+5	-24
Sum	Prod
-3+8	1-300

c)  $2x^2 + 3xy - 12y^2$   
 $= 2x^2 - 3xy + 8xy - 12y^2$   
 $= x(2x - 3y) + 4y(2x - 3y)$   
 $= (2x - 3y)(x + 4y)$

d)  $(3y - 2)^2 + 3(3y - 2) - 4$  Let  $b = 3y - 2$   
 $b^2 + 7b - 4$   
 $= (b + 11)(b - 4)$   
 $= (3y - 2 + 11)(3y - 2 - 4)$   
 $= (3y + 9)(3y - 6)$   
 $= 9(y + 3)(y - 2)$

2. Solve for x: (3 marks)

$3x^2 + 6 = x^2 + 13x$   
 $2x^2 - 13x + 6 = 0$   
 $2x^2 - 12x - 1x + 6 = 0$   
 $2x(x - 6) - 1(x - 6) = 0$   
 $(x - 6)(2x - 1) = 0$   
 $x - 6 = 0$  or  $2x - 1 = 0$   
 $x = 6$  or  $x = \frac{1}{2}$

(-1)	(+1)
Sum	Product
-2+1	0-2x-1

$x = \frac{1}{2}, 6$

3. The relationship between the height (h), in metres, of a kicked ball and time (t), in seconds, is given by the formula:  $h = -4t^2 + 32t$ . How long does it take the ball to reach a height of 48 m?

$48 = -4t^2 + 32t$   
 $4t^2 - 32t + 48 = 0$   
 $4(t^2 - 8t + 12) = 0$   
 $4(t - 6)(t - 2) = 0$   
 $t - 6 = 0$  or  $t - 2 = 0$   
 $t = 6$  or  $t = 2$

Check:  $t = 6$   
 $48 = -4(6)^2 + 32(6)$   
 $48 = -144 + 192$   
 $48 = 48$   
 Check:  $t = 2$   
 $48 = -4(2)^2 + 32(2)$   
 $48 = -16 + 64$   
 $48 = 48$   
 $\therefore t = 2 \text{ s or } 6 \text{ s}$

# Pre Calculus Solutions

**Yijin Wang**



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