

GR 10 NOVEMBER 2015 PAPER 1 – MEMO

1.1	$12x^2 - x - 6$ $= (4x - 3)(3x + 2)$ <div style="text-align: center;"> $\sqrt{\quad} \quad \quad \sqrt{\quad}$ </div>		(2)
1.2	$18x^2y + 45x^2 - 2y - 5$ $= 9x^2(2y + 5) - (2y + 5)$ $= (2y + 5)(9x^2 - 1) \sqrt{\quad}$ $= (2y + 5)(3x - 1)(3x + 1) \sqrt{\quad} \sqrt{\quad}$		(3)
1.3	$y^3(7 - a) + 8x^3(a - 7)$ $= (7 - a)(y^3 - 8x^3) \sqrt{\quad}$ $= (7 - a)(y - 2x)(y^2 + 2xy + 4x^2) \sqrt{\quad} \sqrt{\quad}$	OR $y^3(7 - a) + 8x^3(a - 7)$ $= (a - 7)(8x^3 - y^3) \sqrt{\quad}$ $= (a - 7)(2x - y)(4x^2 + 2xy + y^2) \sqrt{\quad} \sqrt{\quad}$	(3)
			[8]
2.1	$\left(\begin{array}{ccc} - & - & - \end{array} \right) \left(\begin{array}{ccc} + & + & - \end{array} \right)$ $= \begin{array}{ccccccc} + & + & - & - & - & - & - \end{array} \sqrt{\quad}$ $= \begin{array}{ccccccc} - & - & - & - & - & - & - \end{array} \sqrt{\quad}$		(2)
2.2	$\begin{array}{cc} + & - \\ \hline + & \\ \hline - & + \\ \hline + & \end{array} \sqrt{\quad} \sqrt{\quad}$ $= \begin{array}{cc} - & \\ \hline - & \end{array} \sqrt{\quad}$		(3)
2.3	$\begin{array}{cc} - & - \\ \hline - & \\ \hline - & - \\ \hline - & \\ \hline - & - \\ \hline - & \end{array} \sqrt{\quad} \sqrt{\quad}$ $= \begin{array}{cc} - & \\ \hline - & \end{array} \sqrt{\quad}$ $= \begin{array}{cc} - & \\ \hline - & \end{array} \sqrt{\quad} \sqrt{\quad}$		(4)
2.4	$\begin{array}{cc} - & \\ \hline + & \\ \hline - & \\ \hline + & \\ \hline - & + \\ \hline + & \end{array} \sqrt{\quad} \sqrt{\quad}$ $= (7^2 - 1) \sqrt{\quad}$		(3)
			[12]

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David Kirk



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