#### NOTE:

- If a candidate answers a question TWICE, only mark the FIRST attempt.
- If a candidate has crossed out an attempt of a question and not redone the question, mark the
  crossed out version.
- · Consistent Accuracy applies in all aspects of the marking memorandum.

#### QUESTION 1

$x^{2} + x = 6$ $x^{2} + x - 6 = 0$ $+ 3)(x - 2) = 0$ $x = -3 \text{ or } 2$ $\frac{1}{2} + x - 6 = 0$ $= \frac{-b \pm \sqrt{b^{2} - 4ac}}{2a}$ $= \frac{-1 \pm \sqrt{1^{2} - 4(1)(-3c)}}{2(1)}$ $= -3 \text{ or } 2$ $3x^{2} - 4x = 8$ $= -4x - 8 = 0$	-6)	Note: Answers by inspection: award 3/3 marks  Note: Answer only of x = 2: award 1/3 marks  Note: If candidate converts equation to linear: award 0/3 marks	✓ standard form ✓ factors ✓ answers (3) ✓ standard form ✓ substitution into correct formula ✓ answers (3)
$x = -3 \text{ or } 2$ $+ x - 6 = 0$ $-b \pm \sqrt{b^2 - 4ac}$ $= \frac{-1 \pm \sqrt{1^2 - 4(1)(-2(1))}}{2(1)}$ $= -3 \text{ or } 2$ $3x^2 - 4x = 8$	-6)	Answer only of x = 2 : award 1/3 marks  Note: If candidate converts equation to linear:	✓ answers (3) ✓ standard form ✓ substitution into correct formula ✓ answers
	-6)	Answer only of x = 2 : award 1/3 marks  Note: If candidate converts equation to linear:	✓ standard form  ✓ substitution into correct formula  ✓ answers
$= \frac{-1 \pm \sqrt{1^2 - 4(1)(-1)^2 - 4(1)(-1)^2}}{2(1)}$ $= -3 \text{ or } 2$ $3x^2 - 4x = 8$	-6)	If candidate converts equation to linear:	into correct formula
-3  or  2 $3x^2 - 4x = 8$			(3)
$x^2 - 4x - 8 = 0$			✓ standard form
$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$		Note: If candidate uses incorrect formula: maximum 1/4 marks (for standard form)	
$\frac{-(-4) \pm \sqrt{(-4)^2}}{2(2)}$	-4(3)(-8)		✓ substitution into correct formula
$ \frac{4 \pm \sqrt{16 + 96}}{6} \\ = \frac{4 \pm \sqrt{112}}{6} \\ = \frac{2 \pm 2\sqrt{7}}{3} $	Note: Penalise  I mark for inaccurate rounding off to ANY number of decimal places if candidate gives decimal	Note: If an error in subs and gets: $\frac{4 \pm \sqrt{-80}}{6}$ and states "no solution": maximum 3/4 marks  If doesn't conclude with "no solution":	$\checkmark \sqrt{112}$ $\checkmark \frac{4 \pm \sqrt{112}}{6}$ or decimal answer (4)
		$-(-4) \pm \sqrt{(-4)^2 - 4(3)(-8)}$ $2(3)$ $4 \pm \sqrt{16 + 96}$ $6$ $4 \pm \sqrt{112}$ $6$ $2 \pm 2\sqrt{7}$ $3$ $2 \pm 2\sqrt{7}$ $3$ Pote: Penalise 1 mark for inaccurate rounding off to ANY number of decimal places if candidate	$ \begin{array}{c c} -(-4)\pm\sqrt{(-4)^2-4(3)(-8)} \\ \hline 2(3) \\ \hline \\ 4\pm\sqrt{16+96} \\ \hline 6 \\ 4\pm\sqrt{112} \\ \hline 6 \\ \hline \\ 4\pm\sqrt{112} \\ \hline \\ 6 \\ \hline \\ 2\pm2\sqrt{7} \\ \hline \\ 3 \\ \hline \\ 2,43 \text{ or } -1,10 \end{array} \begin{array}{c} \textbf{Note: Penalise } \\ \textbf{In mark for inaccurate rounding off to } \\ \textbf{ANY number of decimal places if candidate gives decimal } \\ \hline \\ 2,43 \text{ or } -1,10 \end{array} \begin{array}{c} \textbf{Note: If an error in subs and } \\ \textbf{gets: } \frac{4\pm\sqrt{-80}}{6} \\ \textbf{states "no solution": maximum 3/4 marks} \\ \textbf{If doesn't conclude with "no solution": mosolution": } \\ \hline \end{array} $

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