

**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**

1.1.1	$x(x+1) = 6$ $x^2 + x = 6$ $x^2 + x - 6 = 0$ $(x+3)(x-2) = 0$ $x = -3 \text{ or } 2$ <p><b>OR</b></p> $x^2 + x - 6 = 0$ $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $= \frac{-1 \pm \sqrt{1^2 - 4(1)(-6)}}{2(1)}$ $x = -3 \text{ or } 2$	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <b>Note:</b> Answers by inspection: award 3/3 marks         </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <b>Note:</b> Answer only of <math>x = 2</math> : award 1/3 marks         </div> <div style="border: 1px solid black; padding: 5px;"> <b>Note:</b> If candidate converts equation to linear: award 0/3 marks         </div>	<div style="display: flex; justify-content: space-between;"> <div>             ✓ standard form              ✓ factors              ✓ answers           </div> <div>(3)</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div>             ✓ standard form              ✓ substitution into correct formula              ✓ answers           </div> <div>(3)</div> </div>
1.1.2	$3x^2 - 4x = 8$ $3x^2 - 4x - 8 = 0$ $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $= \frac{-(-4) \pm \sqrt{(-4)^2 - 4(3)(-8)}}{2(3)}$ $= \frac{4 \pm \sqrt{16 + 96}}{6}$ $= \frac{4 \pm \sqrt{112}}{6}$ $= \frac{2 \pm 2\sqrt{7}}{3}$ $= 2,43 \text{ or } -1,10$	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <b>Note:</b> If candidate uses incorrect formula: maximum 1/4 marks (for standard form)         </div> <div style="border: 1px solid black; padding: 5px;"> <b>Note:</b> If an error in subs and gets: <math>\frac{4 \pm \sqrt{-80}}{6}</math> and states "no solution": maximum 3/4 marks  If doesn't conclude with "no solution": maximum 2/4 marks         </div>	<div style="display: flex; justify-content: space-between;"> <div>             ✓ standard form                ✓ substitution into correct formula                ✓ <math>\sqrt{112}</math>              ✓ <math>\frac{4 \pm \sqrt{112}}{6}</math> or              decimal answer           </div> <div>(4)</div> </div>

# Mathematics P1 Dbe Exemplar Grade 12 Memorandum 2014

**S Ashworth**



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