

**NOTE:**

- If a candidate answers a question **TWICE**, only mark the **FIRST** attempt.
- Consistent accuracy applies in all aspects of the marking memorandum.

**LET WEL:**

- Indien 'n kandidaat 'n vraag **TWEE** keer beantwoord, merk slegs die **EERSTE** poging.
- Volgehoue akkuraatheid is **DEURGAANS** op **ALLE** aspekte van die memorandum van toepassing.

**QUESTION/VRAAG 1**

1.1.1	$(x - 2)(4 + x) = 0$ $x = 2$ or $x = -4$	$\checkmark x = 2$ $\checkmark x = -4$  <b>(2)</b>
1.1.2	$3x^2 - 2x - 14 = 0$ $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $x = \frac{2 \pm \sqrt{(-2)^2 - 4(3)(-14)}}{2(3)}$ $= \frac{2 \pm \sqrt{172}}{6}$ $x = 2,52$ or/of $x = -1,85$  <b>OR/OF</b> $x^2 - \frac{2}{3}x + \frac{1}{9} = \frac{14}{3} + \frac{1}{9}$ $\left(x - \frac{1}{3}\right)^2 = \frac{43}{9}$ $x - \frac{1}{3} = \pm \frac{\sqrt{43}}{3}$ $\therefore x = \frac{1 \pm \sqrt{43}}{3}$ $x = 2,52$ or/of $x = -1,85$	$\checkmark$ standard form/standaardvorm  $\checkmark$ substitution into correct formula/ substitusie in korrekte formule  $\checkmark \checkmark$ answers/ antwoorde  <b>(4)</b>  $\checkmark$ for adding $\frac{1}{9}$ on both sides/ref $\frac{1}{9}$ by aan beide kante  $\checkmark x = \frac{1 \pm \sqrt{43}}{3}$  $\checkmark \checkmark$ answers  <b>(4)</b>

# Mathematics Paper Memorandum Grade 12 September 2014

**Michal Rosen-Zvi**



**Mathematics Paper Memorandum Grade 12 September 2014:**

## The Enigmatic Realm of **Mathematics Paper Memorandum Grade 12 September 2014**: Unleashing the Language is Inner Magic

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