

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 $x = -4$ | $\checkmark x = 2$ $\checkmark x = -4$ (2) |
| 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 $x = -1,85$ OR/OF $x^2 - \frac{2}{3}x + \frac{1}{9} = \frac{14}{3} + \frac{1}{9}$ $\left(x - \frac{1}{3}\right)^2 = \frac{43}{9}$ $x - \frac{1}{3} = \pm \frac{\sqrt{43}}{3}$ $\therefore x = \frac{1 \pm \sqrt{43}}{3}$ $x = 2,52$ or/of $x = -1,85$ | \checkmark standard form/standaardvorm \checkmark substitution into correct formula/ substitusie in korrekte formule $\checkmark \checkmark$ answers/ antwoorde (4) \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 (4) |

Mathematics Pdbe November 2014

Yan Bai



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