

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 P1 Exemplar Grade 12 Dbe 2014

Memorandum

Jiyuan Zhang



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web mar 5 2022 a brief history of solar power although solar energy enjoys an established and dynamic role in the clean energy economy of current times its history is somewhat rich and involved with regard to photovoltaics and how the concept of solar energy came to fruition theoretically solar energy can be traced back in terms of usage by us

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