

NOTE:

- If a candidate answers a question/vraag 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 in ALLE aspekte van die memorandum van toepassing.

QUESTION/VRAAG 1

| | | |
|-------|--|---|
| 1.1.1 | $3x^2 - 4x = 0$ $x(3x - 4) = 0$ $x = \frac{4}{3} \text{ or } x = 0$ | ✓ factors ✓ both answers (2) |
| 1.1.2 | $x - 6 + \frac{2}{x} = 0$ $x^2 - 6x + 2 = 0$ $x = \frac{-(-6) \pm \sqrt{(-6)^2 - 4(1)(2)}}{2(1)}$ $= \frac{6 \pm \sqrt{28}}{2}$ $x = 0,35 \text{ or } x = 5,65$ <p>OR</p> $x - 6 + \frac{2}{x} = 0$ $x^2 - 6x + 2 = 0$ $(x - 3)^2 = -2 + 9$ $(x - 3) = \pm \sqrt{7}$ $x = 3 \pm \sqrt{7}$ $x = 0,35 \text{ or } x = 5,65$ | $\checkmark x^2 - 6x + 2 = 0$ $\checkmark \text{ subs into}$ correct formula $\checkmark x = 0,35$ $\checkmark x = 5,65$ (4) |
| 1.1.3 | $x^{\frac{2}{3}} = 4; x > 0$ $x = (2^2)^{\frac{3}{2}}$ $x = 8$ <p>OR</p> | $\checkmark x = (2^2)^{\frac{3}{2}}$ $\checkmark x = 8$ (2) |

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