

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

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Marcel A. Müller

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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