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 | ✓ factors |
| | $x = \frac{4}{3}$ or $x = 0$ | ✓both answers (2) |
| 1.1.2 | $x - 6 + \frac{2}{x} = 0$ $x^2 - 6x + 2 = 0$ | $\checkmark x^2 - 6x + 2 = 0$ |
| | $x = \frac{-(-6) \pm \sqrt{(-6)^2 - 4(1)(2)}}{2(1)}$ $= \frac{6 \pm \sqrt{28}}{2}$ $x = 0.35 \text{ or } x = 5.65$ | ✓ subs into correct formula ✓ $x = 0.35$ ✓ $x = 5.65$ |
| | OR | (4) |
| | $x - 6 + \frac{2}{x} = 0$ $x^{2} - 6x + 2 = 0$ $(x - 3)^{2} = -2 + 9$ $(x - 3) = \pm \sqrt{7}$ $x = 3 \pm \sqrt{7}$ $x = 0.35 \text{ or } x = 5.65$ | √ x2 - 6x + 2 = 0 $ √ (x - 3)2 = -2 + 9 $ $ √ x = 0.35 $ $ √ x = 5.65 $ (4) |
| 1.1.3 | $x^{\frac{2}{3}} = 4$; $x > 0$ $x = (2^{\frac{3}{2}})^{\frac{3}{2}}$ | $\checkmark x = (2^2)^{\frac{3}{2}}$ |
| | x = 8 OR | ✓ x = 8 (2) |

Maths Pgrade November Exampler 2014

Sherry L. Field, Jeff Passe, Andrea S. Libresco, Janet Alleman

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