

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 op ALLE aspekte van die memorandum van toepassing.

QUESTION/VRAAG 1

1.1.1	$x^2 - 9x + 20 = 0$ $(x - 4)(x - 5) = 0$ $x = 4$ or $x = 5$	✓ factors ✓ $x = 4$ ✓ $x = 5$ (3)
1.1.2	$3x^2 + 5x - 4 = 0$ $x = \frac{-5 \pm \sqrt{(5)^2 - 4(3)(-4)}}{2(3)}$ $x = \frac{-5 \pm \sqrt{73}}{6}$ $x = -2,26$ or $x = 0,59$ OR/OF $x^2 + \frac{5}{3}x + \frac{25}{36} = \frac{4}{3} + \frac{25}{36}$ $\left(x + \frac{5}{6}\right)^2 = \frac{73}{36}$ $x + \frac{5}{6} = \pm \frac{\sqrt{73}}{6}$ $x = \frac{-5 \pm \sqrt{73}}{6}$ $x = -2,26$ or $x = 0,59$	✓ standard form ✓ substitution into correct formula ✓ ✓ answers (4) ✓ for adding $\frac{25}{36}$ on both sides ✓ $x = \frac{-5 \pm \sqrt{73}}{6}$ ✓ ✓ answers (4)
1.1.3	$2x^{\frac{-5}{3}} = 64$ $x^{\frac{-5}{3}} = 32$ $x = (2^5)^{\frac{-3}{5}}$ $x = 2^{-3}$ or $\frac{1}{8}$ or 0,125 OR/OF	✓ dividing both sides by 2 ✓ $32 = 2^5$ or $64 = 2^6$ ✓ raising RHS to $\frac{-3}{5}$ ✓ answer (4)

Mathematics Paper 2 Dbe 2013 Memo

JA Banks



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