

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	$(x+4)(x-5) = 0$ $\therefore x = -4 \text{ or } x = 5$	✓ factors/faktore ✓ answers/antwoorde (2)
1.1.2	$2x^2 - 11x + 7 = 0$ $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $= \frac{-(-11) \pm \sqrt{(-11)^2 - 4(2)(7)}}{2(2)}$ $= 4,77 \text{ or } 0,73$ OR/OF $2x^2 - 11x + 7 = 0$ $x^2 - \frac{11}{2}x + \frac{7}{2} = 0$ $x^2 - \frac{11}{2}x + \left(\frac{1}{2} \cdot \frac{11}{2}\right)^2 + \frac{7}{2} - \left(\frac{1}{2} \cdot \frac{11}{2}\right)^2 = 0$ $\left(x - \frac{11}{4}\right)^2 + \frac{7}{2} - \frac{121}{16} = 0$ $\left(x - \frac{11}{4}\right)^2 = \frac{121 - 56}{16}$ $x - \frac{11}{4} = \pm \sqrt{\frac{65}{16}}$ $\therefore x = \frac{11}{4} + \frac{\sqrt{65}}{4} \quad \text{or} \quad x = \frac{11}{4} - \frac{\sqrt{65}}{4}$ $x = 4,77 \quad \quad \quad x = 0,73$	✓ substitution into correct formula/substitusie in korrekte formule ✓ 4,77 ✓ 0,73 (3)
		✓ correct completion of the square/korrekte voltooiing van die vierkant ✓ 4,77 ✓ 0,73 (3)

Mathematic Supplementary Paper1 201

Xiang Xie



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kutub magnet pole dan frekuensi sebesar 50hz nilai frekuensi ini adalah rata rata frekuensi

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dan daya kita dapat melihat spesifikasi pada name plate sebuah elektro motor yang

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jumlah putaran motor rp m terdapat 3 macam daya yaitu daya celah udara p12 daya rotor p2 dan daya keluaran po oleh
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