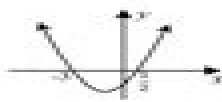


**NOTE/LET WEL:**

- If a candidate answers a question TWICE, mark the FIRST attempt ONLY.  
*Indien 'n kandidaat 'n vraag TWEE keer beantwoord, merk SLEGS die EERSTE poging.*
- Consistent accuracy applies in ALL aspects of the marking guideline.  
*Volgehoue akkuraatheid geld deurgaans in ALLE aspekte van die nasienriglyn.*
- If a candidate crossed out an attempt of a question and did not redo the question, mark the crossed-out attempt.  
*Indien 'n kandidaat 'n poging vir 'n vraag deurgetrek het en nie die vraag weer beantwoord het nie, merk die poging wat deurgetrek is.*
- The mark for substitution is awarded for substitution into the correct formula.
- Die punt vir substitusie word toegeken vir substitusie in die korrekte formule.

**QUESTION 1/VRAAG 1**

1.1.1	$x^2 + 4x - 21 = 0$ $(x - 3)(x + 7) = 0$ $\therefore x = 3 \quad \text{or / of} \quad x = -7$  <b>OR/OF</b> $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $= \frac{-4 \pm \sqrt{4^2 - 4(1)(-21)}}{2(1)}$ $= \frac{-4 \pm \sqrt{100}}{2}$ $= 3 \quad \text{or / of} \quad -7$	✓ factors / faktore ✓ both x-values / beide x-waardes (2)  <b>OR/OF</b>  ✓ substitution / vervanging  ✓ both x-values / beide x-waardes (2)
1.1.2	$x(2x - 7) = 3$ $2x^2 - 7x - 3 = 0$ $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $= \frac{-(-7) \pm \sqrt{(-7)^2 - 4(2)(-3)}}{2(2)}$ $= \frac{7 \pm \sqrt{73}}{4}$ $= 3,89 \quad \text{or / of} \quad -0,39$	✓ standard form / standaardvorm  ✓ substitution / vervanging  ✓ $x = 3,89$ or/of ✓ $x = -0,39$ (4)
1.1.3	$(2x + 3)(x + 1) < 6$ $2x^2 + 5x + 3 < 6$ $2x^2 + 5x - 3 < 0$ $(2x - 1)(x + 3) < 0$ $\therefore -3 < x < \frac{1}{2}$	 ✓ standard form / standaardvorm ✓ factors / faktore ✓✓ $-3 < x < \frac{1}{2}$ (Accuracy/Akkuraatheid) (4)

# Mathematics P1 Memo 2015

**Marcelo Aguiar, Federico Ardila**



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