#### 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-2)(4+x)=0	
	x=2 or $x=-4$	$\checkmark x = 2$ $\checkmark x = -4$ (2)
1.1.2	$3x^{2} - 2x - 14 = 0$ $x = \frac{-b \pm \sqrt{b^{2} - 4ac}}{2a}$	✓ standard form/standaardvorm
	$x = \frac{2 \pm \sqrt{(-2)^2 - 4(3)(-14)}}{2(3)}$ $= \frac{2 \pm \sqrt{172}}{6}$	✓ substitution into correct formula/ substitusie in korrekte formule
	x = 2,52  or/of  x = -1,85	✓ ✓ answers/ antwoorde (4)
	OR/OF	
	$x^{2} - \frac{2}{3}x + \frac{1}{9} = \frac{14}{3} + \frac{1}{9}$ $\left(x - \frac{1}{3}\right)^{2} = \frac{43}{9}$	✓ for adding $\frac{1}{9}$ on both sides/tel $\frac{1}{9}$ by aan beide kante
	$x - \frac{1}{3} = \pm \frac{\sqrt{43}}{3}$ $\therefore x = \frac{1 \pm \sqrt{43}}{3}$ $x = 2.52  \text{or/of}  x = -1.85$	$\checkmark x = \frac{1 \pm \sqrt{43}}{3}$ $\checkmark \checkmark \text{answers} \tag{4}$

# <u>Mathematics P1 November2014grade12 Memorandum</u>

**Michael Seilmaier** 

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