

**MATHEMATICS EXEMPLAR EXAMINATION
GRADE 12
PAPER 1**

MEMORANDUM

QUESTION 1

1.1.1	$\frac{x^2 - 1}{x + 1} = 2$ $\therefore x^2 - 1 = 2(x + 1)$ $\therefore x^2 - 1 = 2x + 2$ $\therefore x^2 - 2x - 3 = 0$ $\therefore (x - 3)(x + 1) = 0$ $\therefore x = 3 \quad \text{or} \quad x = -1$ But $x \neq -1$ $\therefore x = 3 \text{ is the solution}$ OR $\frac{x^2 - 1}{x + 1} = 2$ $\therefore \frac{(x + 1)(x - 1)}{(x + 1)} = 2$ $\therefore x - 1 = 2 \quad \text{provided } x \neq -1$ $\therefore x = 3$	✓ standard form = 0 ✓ factorisation ✓ both answers ✓ excluding $x = -1$ (4)
1.1.2	$8 - (x - 2)(x - 3) = 0$ $\therefore 8 - (x^2 - 5x + 6) = 0$ $\therefore 8 - x^2 + 5x - 6 = 0$ $\therefore -x^2 + 5x + 2 = 0$ $\therefore x^2 - 5x - 2 = 0$ $\therefore x = \frac{-(-5) \pm \sqrt{(-5)^2 - 4(1)(-2)}}{2(1)}$ $\therefore x = \frac{5 \pm \sqrt{33}}{2}$ $\therefore x = 5,37 \quad \text{or} \quad x = -0,37$ - 1 for inaccurate rounding off for both answers.	✓ simplification ✓ standard form ✓ substitution into formula ✓ correct answers (4)

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