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MATHEMATICS (First Paper)

MEMORANDUM

QUESTION 1 [14]

SIGNATURE

1.1
$$x(x+2) = 0$$

 $x = 0$ or $x = -2$

1.2
$$x \le -2$$
 or $x \ge 0$; with $x > 0$
 $\therefore x > 0$

1.3
$$x = \frac{-(-3) \pm \sqrt{(-3)^9 - 4(2)(-7)}}{2(2)}$$
$$x = \frac{3 \pm \sqrt{65}}{4}$$
$$x = 2.77 \quad \text{or} \quad x = -1.27$$

1.4
$$1 + 2^{x-2} + 2^{x-1} + 2^x = 53$$
$$2^x (2^{-2} + 2 + 1) = 52$$
$$2^x = 16$$
$$x = 4$$

QUESTION 2 [10]

2.1.1
$$(x + 1)^2 - 4 = 16$$

 $(x + 1)^2 = 20$
 $x + 1 = \pm \sqrt{20}$
 $x = \pm 2\sqrt{5} - 1$ OR
 $(x + 1)^2 - 4 = 16$
 $x^2 + 2x - 19 = 0$
 $x = \frac{-2 \pm \sqrt{(2)^2 - 4(-19)}}{2}$
 $x = \pm 2\sqrt{5} - 1$

$$2.1.2 k = 0$$

1A factorizing 2 CA for each answer

2CA for each inequality (-1) if '<' is used 1CA for selecting correct inequality Full marks for answer only.

 $\frac{2}{3}$ if left in surd form

1A for 2° = 1 1A for factorizing 1A for RHS 1CA 1CA

LA

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Brendan G. Carr

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