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GAUTENG DEPARTMENT OF EDUCATION PREPARATORY EXAMINATON

PROOFREAD DATE

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

[5]

Maths Ptrial 2014

Marcel A. Müller



Maths Ptrial 2014 Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "Maths Ptrial 2014," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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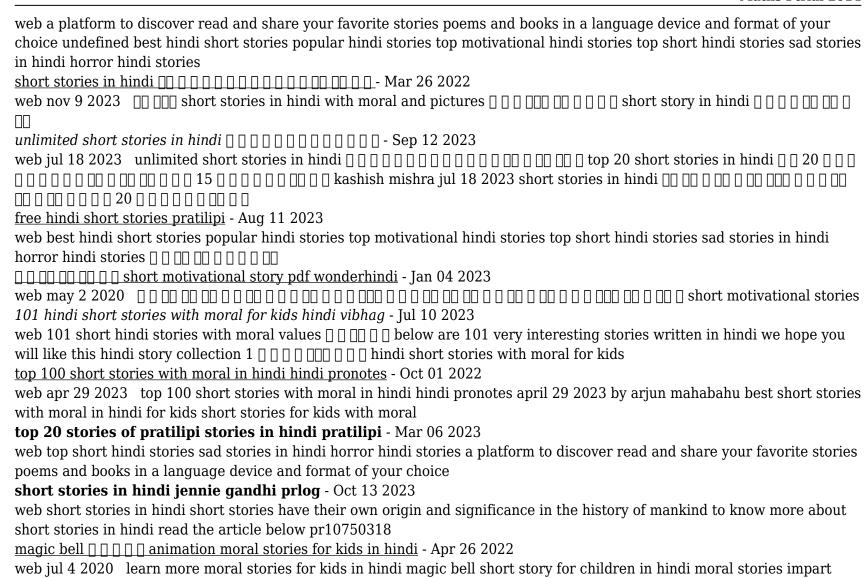
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