

GAUTENG DEPARTMENT OF EDUCATION
PREPARATORY EXAMINATION

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MATHEMATICS
(First Paper)

MEMORANDUM

QUESTION 1 [14]

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

1A factorizing
2 CA for each answer

[3]

1.2 $x \leq -2$ or $x \geq 0$; with $x > 0$
 $\therefore x > 0$

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

[3]

1.3
$$x = \frac{-(-3) \pm \sqrt{(-3)^2 - 4(2)(-7)}}{2(2)}$$

$$x = \frac{3 \pm \sqrt{65}}{4}$$

 $x = 2.77$ or $x = -1.27$

1A substitution into correct formula

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

2CA for each correct answer

[3]

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

1A for $2^0 = 1$
1A for factorizing
1A for RHS
1CA
1CA

[5]

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

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

 $x = \pm 2\sqrt{5} - 1$

1A squaring both sides
1CA for isolating complete square
1M for taking square root
2CA for each answer

1A squaring both sides
1CA simplification
1CA substitution into correct formula

2CA for each answer

[5]

2.1.2 $k = 0$

1A

[1]

Gauteng Question Papers 2014

Michal Rosen-Zvi



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keterangan mean rerata jumlah nilaihasil jumlah datasampel menentukan nilai yang sering muncul

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menggunakan rumus berikut banyaknya peserta didik rumus rata rata hitung dimodifikasi dari sudjana 2005 dari 70 nilai tes hasil belajar thb dan keterangan 30 nilai pengerjaan lkpd kemudian hasil rata rata skor aktivitas peserta didik dari pengamat ke i

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cara menghitung rata rata hasil belajar matematika dengan rumus sudjana 2005 67 keterangan nilai rata rata hasil belajar matematika siswa banyaknya subjek jumlah nilai seluruh siswa adapun untuk menentukan varians nantinya akan disusun

terlebih dahulu dalam tabel distribusi frekuensi

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rumus rata rata diadaptasi dari sudjana 1975 keterangan $\bar{x}$ skor rata rata praktikalitas $\bar{y}$ skor rata rata praktikalitas peserta didik ke $\bar{z}$ banyak peserta didik 5 kemudian hasil dari skor rata rata kepraktisan yang dinilai oleh guru dan peserta didik tersebut

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sudjana 1996 metoda statistika bandung tarsito bandung banyak uji t digunakan dengan rumus seandainya ada empat rata rata n 4 maka banyak uji t dilakukan adalah sebelum uji kesamaan beberapa rata rata dilakukan maka persyaratannya haruslah dipenuhi terlebih dahulu persyaratan uji beberapa rata rata sama halnya

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menentukan rata rata simpangan simpangan baku varians bilangan baku t bilangan baku z dan koefisien variasi dari sekumpulan data yang diberikan memahami arti korelasi dan kaitannya dengan ramalan menghitung koefisien korelasi untuk sekelompok data dengan cara produk momen pearson data tidak tersusun dan data tersusun kegiatan belajar

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yang diberikan oleh penilai kemudian rata rata perolehan skor kepraktisan oleh masing masing penilai dengan menggunakan rumus berikut k rumus rata rata hitung diadaptasi dari sudjana 2005 bengkulu yaitu ibu velysa astari s pd dan keterangan ibu alin suhermi s pd kepraktisan oleh siswa rata rata skor kepraktisan oleh

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 $\bar{a}$ percepatan rata rata t waktu v kecepatan benda dari rumus tersebut nantinya dapat diketahui bahwa jika percepatan positif maka benda mengalami percepatan yang searah dengan gerak benda

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