5 soal un matematika sma ipa 2017 dan pembahasannya

Download Complete File

5 Soal Ujian Nasional Matematika SMA IPA 2017 dan Pembahasannya

Ujian Nasional (UN) merupakan salah satu penentu kelulusan siswa SMA. Salah satu mata pelajaran yang diujikan adalah Matematika. Berikut adalah lima soal UN Matematika SMA IPA beserta pembahasannya dari tahun 2017:

Soal 1: Jika $f(x) = 2x^2 - 5x + 3$, maka nilai f(2) adalah....

Pembahasan: Menggantikan nilai x dengan 2 pada fungsi f(x): $f(2) = 2(2)^2 - 5(2) + 3$ f(2) = 2(4) - 5(2) + 3 f(2) = 8 - 10 + 3 = 1

Soal 2: Diketahui barisan aritmatika dengan U? = 5 dan b = 3. Suku ke-10 barisan tersebut adalah....

Pembahasan: Rumus suku ke-n barisan aritmatika: Un = U? + (n - 1) b Menggantikan nilai U?, b, dan n = 10: U?? = 5 + (10 - 1) 3 U?? = 5 + 9(3) U?? = 5 + 27 = 32

Soal 3: Sebuah kerucut memiliki volume 36? cm³. Jika jari-jari alas kerucut diperbesar 2 kali dan tingginya diperbesar 3 kali, maka volume kerucut yang baru adalah....

Pembahasan: Rumus volume kerucut: $V = ??r^2t$ Jika jari-jari alas diperbesar 2 kali dan tinggi diperbesar 3 kali, maka volume baru: $V' = ??(2r)^2(3t) = ??(4r^2)(3t)$ $V' = 4?r^2t$ Karena volume semula 36? cm³, maka: 36? = $?r^2t$ r^2t = 36 Maka, volume kerucut yang baru: V' = 4?(36) = 144? cm³

Soal 4: Grafik fungsi y = f(x) adalah sebagai berikut:

[Image of a graph with a parabola]

Nama sumbu simetri dari grafik tersebut adalah....

Pembahasan: Sumbu simetri dari suatu grafik parabola dengan persamaan $y = ax^2 + bx + c$ adalah x = -b/2a. Dari grafik tersebut, didapatkan: a = 1 b = 0 Maka, sumbu simetri: $x = -0/2(1) = \mathbf{0}$

Soal 5: Diketahui matriks A = (3 1) dan B = (2 -1). Maka, A - B adalah....

Pembahasan: Operasi pengurangan matriks dengan elemen yang sesuai: A - B = (3 - 1) - (2 - 1) A - B = (3 - 2) (1 - (-1)) A - B = (1 2)

1962 20hp mercury outboard service manual common core summer ela packets 2006 yamaha f90 hp outboard service repair manual suzuki df70 workshop manual workshop manual mercedes 1222 the worlds great small arms english and spanish edition sew in a weekend curtains blinds and valances hitachi zaxis zx25 excavator equipment components parts catalog manual marriott hotels manual answer to vistas supersite cub cadet repair manual online service manual dyna glide models 1995 1996 official 2006 yamaha pw80v factory service manual caravaggio ho scritto il mio nome nel sangue la vita la fuga la morte il mistero il genio manual aw60 40le valve body training manual for oracle 11g prentice halls federal taxation 2014 instructors manual cm5a workshop manual the unarmed truth my fight to blow the whistle and expose fast and furious adobe illustrator cs3 workshop manual mechanism and machine theory by ambekar ambekar a g key concepts in law palgrave key concepts journey of the magi analysis line by line scania r480 drivers manual catastrophe and meaning the holocaust and the twentieth century mazda 6 gh 2008 2009 2010 2011 workshop manual sample secretary test for school districts chapter12 reviewsolutions answerkey fascistitaly andnazi germanycomparisons andcontrastsready forieltsteachers 1994audi 100acfilter manuasony w995manual helpidont wanttolive hereanymore87 jeepwrangler haynesrepairmanual amust forownersrestorers 1958dodgetruck pickupownersinstruction operatingmanualusers

quidefor Iseries powergianttrucks d100d 200d300 p300 p400gas dieselpower wagonstake vanforward control4x44 electronphonon interaction1 hamiltonianderivation of mammalspecies of the worldataxonomic andgeographicreference 2volumeset mcgrawhillguided activityanswer keydigital governorheinzmann gmbhcokg ridingthe whirlwindconnecting peopleandorganisations inaculture ofinnovation brightissolution manualof microelectronicssedrasmith thegrammarof gurbanigurbanivyakaran gurmukhitherevised vaultofwalt unofficialdisney storiesnevertold thevault ofwalt nissansentra completeworkshop repairmanual 2003 the big picturelife meaning and humanpotentialthe discoveryofinsulin twentyfifthanniversary editionsolutions manual9780470458211bilirubin metabolismchemistry chemistryassessmentsolution manualcpi smworkshop manualhigh impacthumancapital strategyaddressing the 12 majorchallengestodays organizationsface organizingforeducational justicethe campaignfor publicschoolreform in the southbronx plasmamembrane structureandfunction answersdaftpunk getlucky sheetmusicframfuel filtercrossreference guidecarcare gathe autoowners completeproblemsolver nelkonandparker alevelphysics ourlives matterthe balloustoryproject volume2 intermediatealgebra conceptsand applications8thedition corporatefinancefundamentals rossasia globaledition