Catatan - Lata Soal Motori Kell - MID 1 Namo: Hanit Ahmad syagi Hira 2 10121161 Kelos: IF-4 Kelompox 1 1. Contih Sozi ternon Cosines dan sines Jike fCx) = 12nx, tentukan fCx) sausto? norma fex) 2 for x = Sin x Cos X MISZIKAN 9 (x) = sin x => 9 (x) = (vs x da h(x) = (05 × =) h'(x) = -sin x make sessesi store hasil best F'(x) = 9'(x) h(x) - h'(x) 9(x) -Ch(x))2 (Cosx) (cosx) - (-sinx) (Sinx) ((OS x) 2 052 x + Sin2x C0(2) = Sec 2 x (es2 >

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2. Atuan tanzi

JEKZ JE (2x - 9 x 2)18, (24 0x y

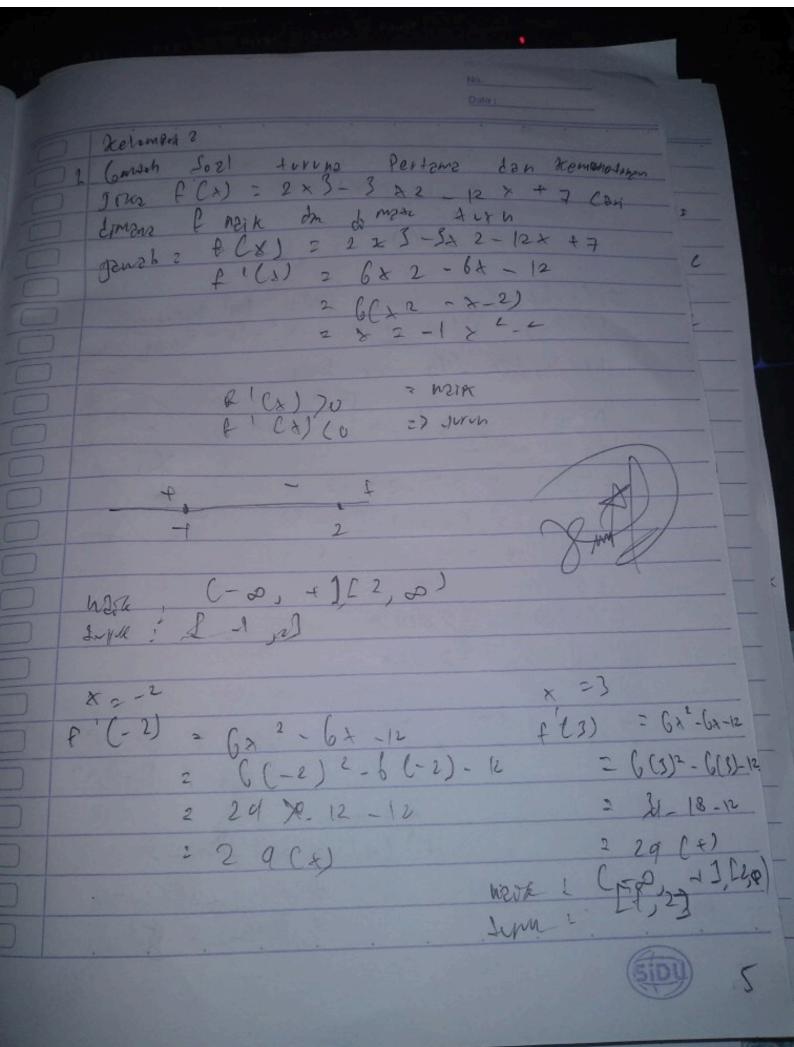
JEKZ JE (2x - 9 x 2)18, (24 0x y

JEKZ JE (2x - 9 x 2)18, (24 0x y misel 0 = 2 x - 9 x 2 den y = 150 iet make Dayse Dx 0 = 2 - 18 > den Pry = 150 iet Jedy y = Duy, Dx V = C150 ta) (2-18x) = 15 (2+9x) (2-18x) 3- Atoran ranki besusin A- (2xi V = Sin 3(4x) B- (2xi Y = Sin 15. (4x) A. V= Gx make Dx V=d V = Sin V 2m2/2 Dv V = Cos v den 1= v² manz. D V = 30 Dxy: Dv y = Dv U - Dx U = (3v3) (Cos U) (4) sengen Lure cutik mangsani Pant bruz seng Schelinge setu uxct, Ux Sia i dan azis Mella di Peralah le los que (Sin at) 2 B. V= CIX wets DXV = CI N = SIA N WEARS DON = 30.

Dry. Dy a Dev. Dav Jaa 1682 LA+K Menygon+1 Pemispian Sans Scholoways V= ax, V= 5 4V don Y= VI mans Expenses Dxy = (3v2)(cos ~) (9) Dry = (3 (sn ((12)2) (10 ax) (a) a Consin notify letbore

Cent dy, give Ls 2 = 3x2 + 7x PenselEszion (> 3-3x2 +7x) = d(x) -28 3 26 2) + 7 2 (2) 3 3x2 - 3(2x) + 7 (1) s 3x2 - 6x +7 8. Atorran rantzi dengan notasi leibniz Andrikan ben ne y e f C v) den v C = 9 (x) delan notest le 16 me, ann parce 2v dx 4x

Count: (24 dy - 31/2 4 = V30x2 mrszl V= x², 2 = 8 v V dm V = 2 = 2 2 5 2 1 mrszl dx = 2x dv = (0) v dm dy = 8 3 5 2 1 2x 2x 2x (1250)2x)=
2x 2x 2x 2x (1250)2x)= × ((05 x2) (Sein v) = y (05 x2) Jrk2 y = x10 - x5, (21) 22 - 25V - 212 y Jues 1 dy = 1029 - 32 81 20 x 3 - 20 x 3 7 9 12 X 50 0



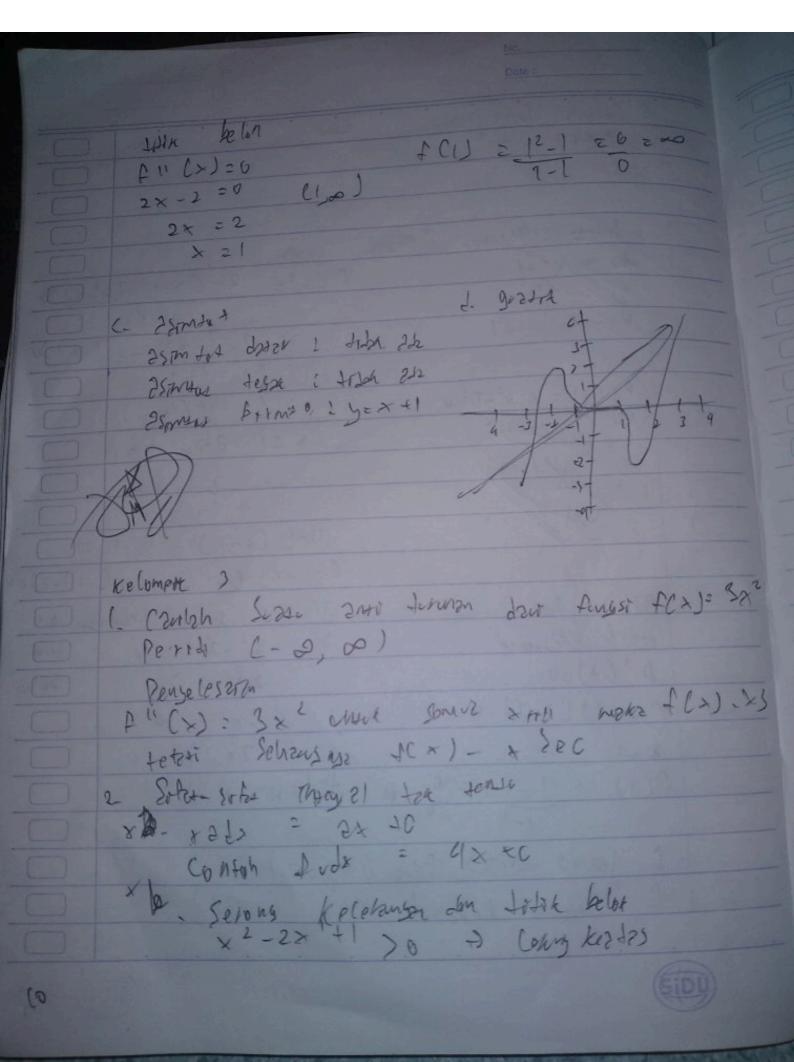
× = U f'(co) = 6x2-6x -12 = 6(0)2-6(0) -12 = 6-0- 12 = - 12 (-) 2. Condih Sozi dunna Kediz dan Kecekingan Dimanz flad = 1 x 3 - x - 3x + a nark, tim, letus Ke 275 Det City he hush f(x) = 1 x 5 - x 2 - 3x + 4 A'(x) = x -2 x -3 = (x+1) Cx-3) 2 x = -1x = 3 E((x)) 20 =) MSIX E' () (0 2) Lun WERR ? C- 0, -() [],A turen : [-1,5) x = -2 f' (-2) 2 x 2 -2x -3 = (-2) -2(-2)-3

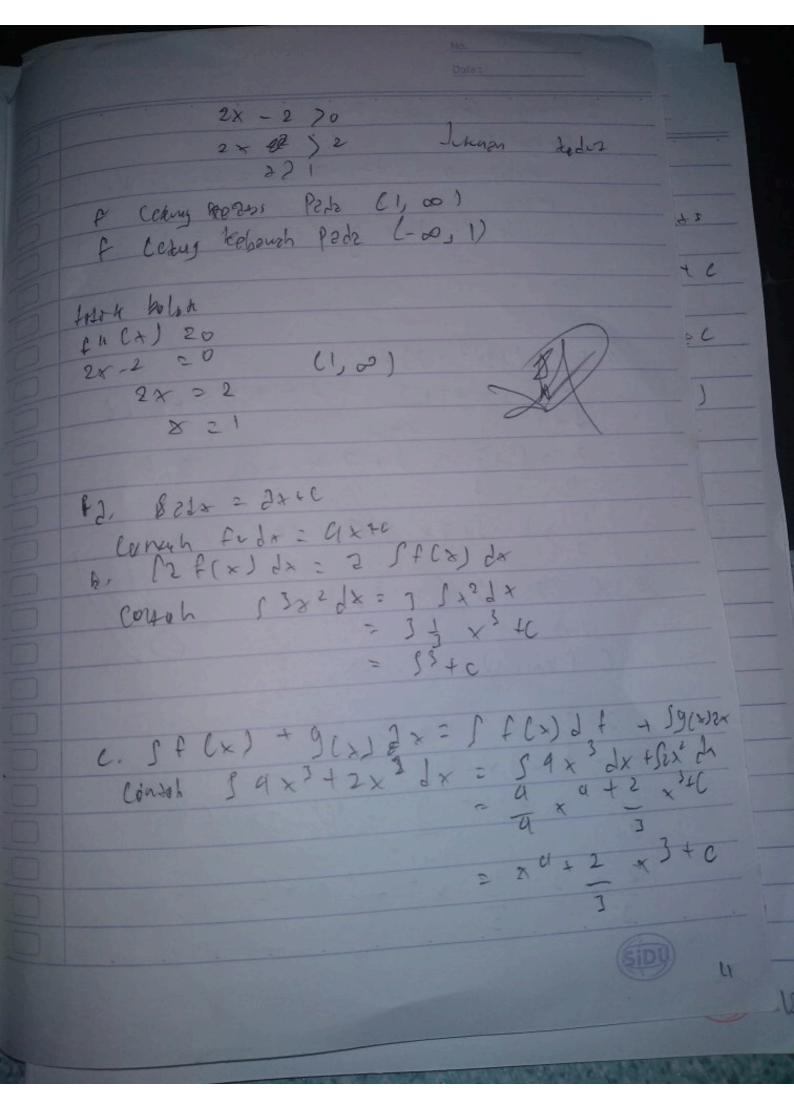
1. Kerenz P(-x) = -f(x), neke F(x) style fings gensil, mana graph Sommen to he tot the sell 2-mencen the Perons x = ± \frac{20}{3} = 2.6 3. mansher gener den gry! G(x) = 723-2023 $f(-x) = -C3x^5 - 20x^3$ f(-x) = -f(-x) - 92nji4: moreton nesa/solon $C \times J = \frac{3 \times 5 - 20 \times 3}{32}$ $C'(x) = \frac{15 \times 4 - (0 \times 3)}{2} = \frac{15 \times 2 - (x - 2)(x + 2)}{2}$ 5. Kecekrism 6'(x) = 15 x9 - 60 x2 6'(x) : 60 x (x-V2) (x+V2) 8

1 a. Conjoh Soll = x = 1 & Charm fings 332 Selvy Kemonalano f'(x)= 2x (x-1)-1(x21) x0 U = x2-1 $\frac{2 \times (2 \times -1)^{2}}{2 \times (2 \times -2)^{2}}$ V = x -1 = 1 (P (Cx) = V. 0'-V', v (x-1) (x-1) x = 1 3+2 x = 1 (0-1) (1-1) =-1,-1 =1 C-1-1) C-1-11 - C-2)-2)=9 1. Sorry Kelokusan dan extrim found tilik Styrones -x2-2+1+170 +124 2 1/-2 >6 beloke P. (4)=0 2x-2 >0 (x-1)(x-1)=0 2x >2 P(1) = 1-1 = 0 th todities x)1 f Central Kepush Pile (-01)

51D)

9



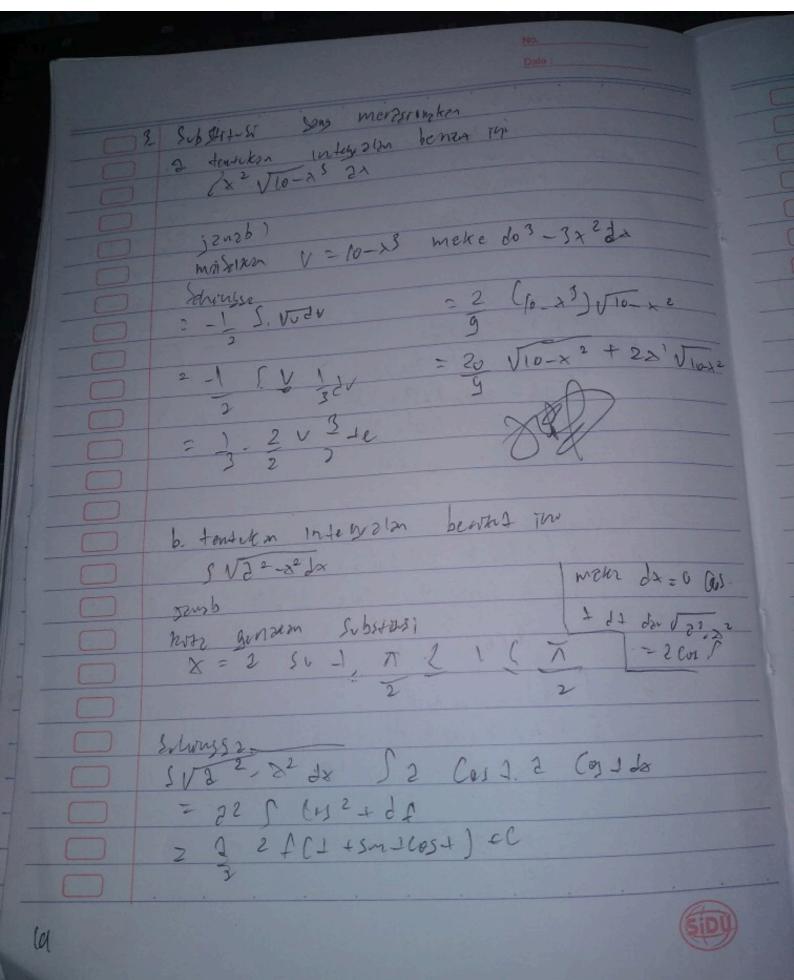


3. hrding Sez dix 2 Konzins Pengeleszien = 2x -> d = 2dx -> d x -> dx more 2> dx = 3 fex de = 1 2 + C = 1 c0 x + 0 4. 8 (2x3+3x2+7) dx 2 +5+1+3 ×2+1+7×+4 (£ 2 × 6 + 2 × 3 + 7 × + C. C E 1 8 8 8 x 3 + 7 x + C C ER 8. f (2x 81) (x-5) dx Jensp E (2x+1) (x-1) dx 2x2 -10x +x-5 2×3 -9×=5 2 x 2+1 - 9 x 1+1 - 5x +C 2 x 3 - 9 x 2 - 5 x + C 10

Kelompea 4 1. Pengitegre 12" dusm Substitus C. f 2x C+3 +01 2+3 2. SIm to Cus2 da = Sv3 dv = Sv3+1+c CRY Poomiselah du = - Sn + dx 3+1 - du = sontde = Sva + C b S &m > 200 = (x2 TI) SSn2 x Eon x da SCI- (us 2x) Strada SCSINA-SHA (OS2X) de =- (0x-C- 3 C 05x)+c =- (05 x + 1 (053x+C 2. Penninsegeralan fonsi Trignomerin 2. SCO Em x + 2 (usx) dx \$ (8 Sin x + 2 Cosx) dx = -8 (0) x + 25m + C b. SSMIX COSA dx S Si43 × (a) + cx = 1 Sm 1 x + c = 1 Sm + + C

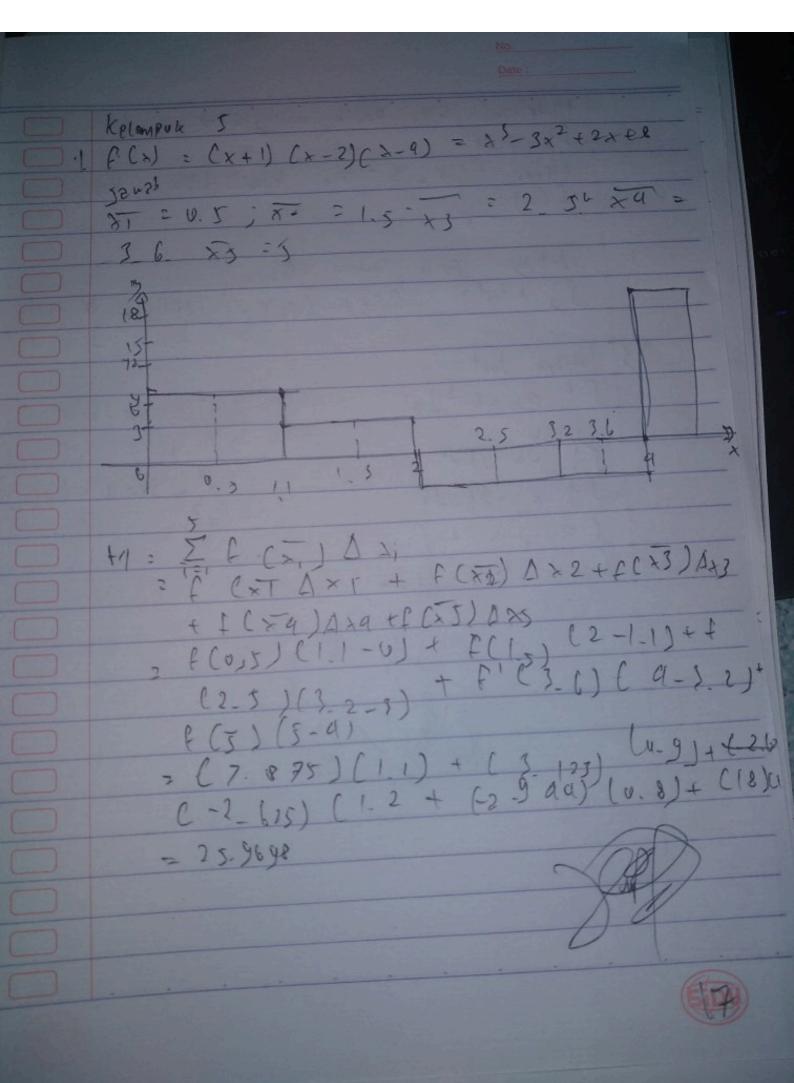
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14 Pany integral an leaster Loweren () Cos John Souther : kitz obsh & les 22 x derson ide Cres thigh memorilan od don de 2 Credo deste de 2 de de ver Cres 20 = En & CARR Legar may hirsten Konstante Pengawatan nz) weer In Thenghalum Promiselen rye) Well de de de la de du zda Best Mong Ensegner Decision mensel 17 (12 + do = 8 Sm + - I sm + C+1 = x Bon + + Cost EC Mayora Congr range Perhatran Contoh Sort beautit Fr 8 2 x +1 2x ×2-3x+2 Sensp $\frac{1}{\int_{1}^{2} \frac{2x+1}{2x+2}} = \frac{1}{\int_{1}^{2} \frac{2x+1}{2x+2}$ = A(x-2) + B(x-1) 2×+1 x 2 - 3x +2

(2w 3 2x+1 = A (x,2) + B (x-1) 2x+1 = (A +151 × + (-2A)-1 A + 13 = 2 -3 +B = 2 A+15=2 Am - 2 A-15=1 CA+15) = 21×11 A+13 = 2 13 = 2+3 13 = 3-2 -2-13= 11×11-2A-18 221 A = -3 Dapulah note; A: - J dan B-5 2. hzg. 1 dzy f x 2(2-x3) = 2x 6- 12 tily 502 genst Sv - 2 2 v : Ur2 + 10 = + 1 - 1 20 1/3/2-13/2. - 1 (= -2 (2x 1) = ec 5- 4511 for 2, C-75 + 8-8) gs 3gs for = S9-7 x 1 4 6 x 2 0 x = (- 3 93 60 11 - 6d) - (- 3 526 5 5 - 95) = -36 +50 = 3 6



tristing hits perly menginisms 55 22 de mengeneren F(1)=x deboga 2nd Inno Sehings 125 - 8 2/12 31 5 3 313 3. bythen Soll

82, ax -6 2 dx 2×2 + 5-36da 2×2 -36> 2×2°-36×2-(2(a) 36(1) Panah ax -36 da -102 54 x - 36 dx 5 4x 2 x + 5-36 2x (x dx + 5-36 dx 18

Kelon pag 6 1 Januara less drevan y ans dobatini blehy = 82 a X = -2 don x -3 = A = 12 Ch(x) - 2 (x)) dx tomus = [12] -5 (-2)2-91-U]

2. historyth less decent yours dibates titue g=ax x2 x=1x= 3 den sombe x Penelosara menensulan (2) Leenh (320) Sh C> Remis = 1025 (-5) Jessen. 20

3 histing 12h less deeren your disbers will blek turvo 5=x2-2x 2n 4=6 A-x2 Durb Rinus: L-25 R = A = S3 Shca)-5(5)] 25 monauthen + itel fotong tedez time Y1 = Y+ x2 - 2 x = 6 x - x + 2 2 2 - 8 2 2 0 2x (x-4) = 0 X = O L X = Q Araings tithe godong Kedu Kuruz x = 0 don x = a merensakan las daerah Ustren 9 dreugh ristion your debetori bleh dur terris Y= x2 2 x Chron for Y= 6x-r Clothigh)

102) 2151721 = - 50 ((x2-2x)-(6x-x4)dx (02) Zrsirza = Sa EC 2 x2 - 0+) - 13 +a-d2)a = 21 7 Jady (up) death you dass adolph 21 2 Saw on las

Significant Se 60 (x < 2 Liphon technology Sende 2 technology Sende 2 technology (2) Sende 2 2002 2h >VI+(4) 2 Sa 10 11 2 VI 2 X 2 1 2/1 2 1 2/1 2 1 2/1 2 1 2/1 2 1 2/1 = 6V37 A 212 = 6V57 A C9-1 = 18V37 T 22