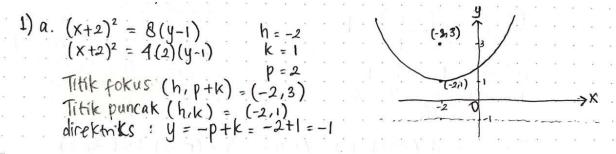
TUGAS KELOMPOK MINGGU 9

KALKULUS II

Kelompok 3:

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- Aida Darajati (G1401211016)
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- Eka Novita Sri Handayani (G1401201030)

Nomor 1a.



Nomor 1b.

|) Levente |) titik punc | ar, for | as, dan | directors |
|--|--------------|---------|---|-----------|
| 4x2 + 16x | -164 +32 = | 0 | | |
| The control of the state of the | 169 = -32 | | | |
| | -49 = -8 | | | |
| X2 + AX : | | | | |
| (x+2)2 - | 4 = 44-8 | | | |
| (x+2)2 | = 44-4 | | | |
| (x+2)2 | = 4(4-1) | | | |
| sehingoa | Titis pun | 7 C | h.k) - (| -2 1) |
| h = -2 | forus | | (h, P+x) = | |
| P = 1 | Direttirs | | 9 = K-P | |
| F =1 | | | | |
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| | 2, | | | |
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| -2 | | | A DESCRIPTION OF THE PROPERTY | |
| | | | Marie II. I have and the entering an excession | |
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| | | DAICA |
|-----|---|--|
| 20. | (x+3)2 + (y+2)2 = 1 | |
| | 9. 16 | |
| | (x+z) + (y+z) - 1 | and the second s |
| | (x+1) (4+2) -1 | Propriesta agree construction and an artist to the confidence of the agree of the a |
| | | The state of the control of the state of the |
| | 0 = 9 | Martine Control of the Control of th |
| | b=z | |
| | C: Va2-62 | |
| | = \(\sqrt{4^7 - 2^2} \) | |
| | = 2/3 | |
| | Titlk Pusot (-3, -2) | |
| | (h, k ta) = (-3, -2+4) = (-3, 2) | Kreksmtykon |
| | (h, k+a) = (-3, -2+4) = (-3,2) | C = C |
| | (-3, -2-9) = (-3, -6) | e = 6 = 6 = 6 = 6 = 6 = 6 = 6 = 6 = 6 = |
| | 71Hk Purcak Minor | - 15 |
| | (h+b, k) = (-3+2, -2) = 1-1,-2) | € 0.886 |
| | . (-3-2, -2) = (-5, -2) | |
| | Titik folus | |
| | (h, k+c) = (-3, -2+2√3) (-3, -2-2√3) | |
| | (-3, -2-26) | |
| | | |
| | | |
| | (-3,7k) (-3,7) | |
| | (4.7) | |
| | (2) ((2)) | |
| ౼ | (-3,-2-245) (-3,4) | |
| | (-21-2-2) (2 (-21-2) | |
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| | | And the second s |

| | maya. |
|--|-------|
| 2. b). x2+442-2x+164+1:0 | |
| => 1x - 2x +492+169+ 1=0 | |
| * (x-1)2-1+4(9+2)2-16+1=0 | |
| (x-1)2 + 4 (y+2)2 = 16 | |
| (x-1)2 (y+2)2 = (| |
| 16 4 | |
| $(x-1)^2 + (y+2)^2 = 1$ | |
| 42 20 | |
| 3 a-4, b-2, c, \[\frac{1}{12}, h=1, k=-2 | |
| 3. Titih Puncok: (h+4, h): (1+4,-2): (5,-2)(-3,-2) | |
| · tokus = (h±(,4) - (1+10,-2) = (1+10,-2)(1-102) | -2) |
| · kecksentrikan = C : Viz . 1 13 | |
| a 4 2 | |
| · gamber: | |
| | |
| -3 × | |
| | |
| (3,2) (6,2) (5,-2) | |
| The state of the s | |
| | |

Nomor 3a.

| 3 a) $\frac{(x+3)^2}{4} - \frac{(y+2)^4}{16} = 1$ 4 Bertile Lumium: $\frac{(x-h)^3}{6^2} - \frac{(y-k)^3}{6^3} = 1$ 4 more $\frac{x}{6} = \frac{x}{16} = 2$ 5 $\frac{x}{6} = \frac{x}{16} = \frac{x}{16}$ 6 $\frac{x}{6} = \frac{x}{16} = \frac{x}{16}$ 7 $\frac{x}{6} = \frac{x}{16} = \frac{x}{16}$ 7 $\frac{x}{6} = \frac{x}{16} = \frac{x}{16}$ 7 $\frac{x}{6} = \frac{x}{16} = \frac{x}{16}$ 8 $\frac{x}{6} = \frac{x}{16} = \frac{x}{16}$ 9 $\frac{x}{6} = \frac{x}{16} = \frac{x}{16}$ 10 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 11 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 12 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 13 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 14 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 15 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 16 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 17 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 18 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 19 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 19 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 10 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 10 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 11 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 12 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 13 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 14 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 15 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 16 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 17 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 18 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 19 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 19 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 10 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 10 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 11 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 12 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 13 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 14 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 15 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 16 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 17 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 18 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 19 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 19 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 10 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 10 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 11 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 12 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 13 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 14 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 15 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 16 $\frac{x}{16} = \frac{x}{16} = \frac{x}{16} = \frac{x}{16}$ 17 $\frac{x}{16} = \frac{x}{16} = \frac{x}$ | | | | | | 1 | | | | | | | |
|---|---|-----|---------|-------|---------|--------------|--------|----------|--|------|----------|----|---|
| 4 16 16 17 16 17 17 17 17 | 3 | a). | (x+ | 3)2_ | (412) |) = 1 | | | | | | | - |
| 4. make $: a = 74 = 2$ $b = 716 = 9$ $c : \sqrt{446} = \sqrt{10} = 2\sqrt{5}$ 4. Title (bear g (h ± c, t) $s (-3 + 1\sqrt{5}, -2)$ & $(-3 - 2\sqrt{5}, -2)$ Title Puncele $: (h ± a, t)$ $s (-1, -2)$ & $(-5, -2)$ asimpte $u = u + u + u + u + u + u + u + u + u + $ | | | | | 1/ | | 1 | | | | \vdash | | |
| 4. make $: a = 74 = 2$ $b = 716 = 9$ $c : \sqrt{446} = \sqrt{10} = 2\sqrt{5}$ 4. Title (bear g (h ± c, t) $s (-3 + 1\sqrt{5}, -2)$ & $(-3 - 2\sqrt{5}, -2)$ Title Puncele $: (h ± a, t)$ $s (-1, -2)$ & $(-5, -2)$ asimpte $u = u + u + u + u + u + u + u + u + u + $ | | 4 | Benhalt | umu | M: (X | -h) - C | y-K) | = 1 | | | H | | H |
| $b = 7ib = 9$ $C = \sqrt{44ib} = 7ib = 2\sqrt{5}$ $4 \text{ Tithe fixed g (h \times c, \times)}$ $g(-3+2\sqrt{5}, -2) & (-3-2\sqrt{5}, -2)$ $7ible puncile : (h \times a, b)$ $g(-1, -2) & (-5, -2)$ $asinglet & g - b = \times (b/b) (x - b)$ $g(-i) = 1 (4/i) (x - (-3))$ $g + i = 1 (x + 3)$ $g = 2x + 4 & g = -2x - 8$ $g = 2x + 4 & g = -2x - 8$ $g = 2x + 4 & g = -2x - 8$ $g = 2x + 4 & g = -2x - 8$ $g = 2x + 4 & g = -2x - 8$ $g = 2x + 4 & g = -2x - 8$ $g = 2x + 4 + 2x - 2x - 8$ $g = 2x + 4 + 3x - 2x - 8$ $g = 2x + 4x - 2x - 2x - 8$ $g = 2x + 4x - 2x - 2x - 8$ $g = 2x + 4x - 2x - 2x - 8$ $g = 2x + 4x - 2x - 2x - 8$ $g = 2x + 4x - 2x - 2x - 8$ $g = 2x + 4x - 2x - 2x - 8$ $g = 2x + 4x - 2x - 2x - 8$ $g = 2x + 4x - 2x - 2x - 8$ $g = 2x + 4x - 2x - 2x - 8$ $g = 2x + 4x - 2x - 2x - 8$ $g = 2x + 4x - 2x - 2x - 8$ $g = 2x + 4x - 2x - 2x - 8$ $g = 2x + 4x - 2x - 2x - 8$ $g = 2x + 4x - 2x - 2x - 2x - 8$ $g = 2x + 4x - 2x - 2x - 2x - $ | | | | | | Q2 | | 1 - | (3) | 7 | | | |
| $b = 7i6 = 9$ $C = \sqrt{9416} = \sqrt{10} = 2\sqrt{5}$ $4 + 7i6 = 6 + 10 = 10 = 10 = 10$ $5 (-3 + 1) = 6 + 10 = 10 = 10$ $5 (-3 + 1) = 6 + 10 = 10 = 10$ $5 (-1) = 10 = 10 = 10 = 10$ $6 = 10 = 10 = 10 = 10$ $16 = 10 = 10 = 10 = 10$ $16 = 10 = 10 = 10 = 10$ $16 = 10 = 10 = 10$ $16 = 10 = 10 = 10$ $16 = 10 = 10 = 10$ $16 = 10 = 10 = 10$ $16 = 10 = 10 = 10$ $16 = 10 = 10 = 10$ $16 = 10 = 10 = 10$ $16 = 10 = 10 = 10$ $16 = 10 = 10 = 10$ $16 = 10 = 10 = 10$ $17 = 10 = 10$ $17 =$ | | 4 | mako | 2 0 | = 79 = | 2 | | n = - | (1) 7 | 2 | | | |
| Title (Deut g (h ± c, \pm) g (-3+1\sqrt{5},-2) & (-3-2\sqrt{5},-2) Title Purch: (h ± a, \times: (h ± a, \ti | | | | Ь | = 716 = | 9 | | K = | (1) | C | | 1 | - |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | C | = 1916 | = 720 = | 512 | | | | | | |
| THE PUNCILE: $(h \pm a, k)$ (-1, -1) k (-5, -1) $(-1) = \pm (h/1) (x - h)$ $(-1) = \pm (1/2) (x - (-3))$ $(-1) = \pm (1/2) (x - (-3))$ | | Lþ. | Tilik | Peral | 8 (ht | . C , F) | 0 (- | 7./= | -21 | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | . 1 | 8 (-3+ | 245,-2) | x (-: | 5 - 245 | ,) | | | | |
| asimble $y - k = \pm (b/k)(x - k)$ $y - (-1) = \pm (4/k)(x - (-3))$ $y + 2 = \pm 2(x + 3)$ y = 2x + 4 & $y = -2x - 8y = 2x + 4 $ & $y = -2x - 8y = (-3 - 2\sqrt{5}, -2) (-3, -2)$ | | | TIF P | uncal | : (h ± | 10, E | = - | . 1 | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | 0 (-1, | -1) K (| - 5, - | 1) | | 1-16 | | | |
| $y + 2 = \pm 2 (x + 3)$ $y = 2x + 4 $ | | | asimbot | | 8 9-F | = 1 (%) | 1/4-6 | 3) | | | | | |
| y = 2x + 4 | 9 | | | | 9-(-1, |) = I(110 | X 12 | ,, | 3 | | | | |
| (-3-2\sqrt{5,-2}) (-5,-1) (-3,-2) (-3+2\sqrt{5,-2}) | | - | | | u | = 5x + 4 | 1 9 | 1 = -7X | -8 | | | | |
| F (-3-2NS,-2) (-3,-2) (-3+2NS,-2) | | 1. | | | 3 | | u . | | THE STATE OF THE S | | | | |
| F (-3-2V5,-2) (-5,-2) (-1,-2) (-3+2V5,-2) | 8 | 4 | - | | 177 | 1-3-1 | 1 | TE | 18 | | | | |
| F (-3-2V5,-2) (-5,-2) (-1,-2) (-3+2V5,-2) | | | | | | | | 7.8 | THE | | | | |
| F (-3-2V5,-2) (-5,-2) (-1,-2) (-3+2V5,-2) | | | | | | | | | | | | | |
| (-3,-2\sqrt{5,-2}) (-3,-2) (-3,-2) (-3,-2) | | | | | | 0.7-1 | 111 | 1 | | | | | |
| (-3-2\sqrt{5,-2}) (-5,-2) (-1,-7) -2- (-3+2\sqrt{5,-2}) | | | | 1 | | T fight | | | | | | | |
| (-3-2\sqrt{5,-2}) (-5,-2) (-1,-7) -2- (-3+2\sqrt{5,-2}) | | | | | | | | | | | | | |
| (-3-2\sqrt{5,-2}) (-3,-2) (-3,-2) | | | | | 1 | -3 | 1 | | | | | | |
| (-3-2\sqrt{5,-2}) (-3,-2) (-3,-2) | | | | | 11 | \ / | / | P | | | | | |
| | | | | |)c: | 5,-2) (-1,-7 | -2- | | | | | H | |
| | 9 | | (| -3-2 | 5,-2) | (-3,-2) | | (-3 + 2V | 5,-2) | | | | |
| | | - | _ | | 1/ | | | | | | | - | |
| | | - | | | / | | 1 | | | | | Н | - |
| | | - | | / | / | | | \ | | | | | |
| | 9 | - | | - " | | | | | | | | | - |
| | | | | - | | | - | | | | | | - |
| | 2 | | | | | | | | | | | 11 | |
| | 9 | 7 | | | | | | | | | | | |
| | | | | | | | | | | | | | - |
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| | | | | | M | | | | | | | | |
| | | | | | | | | | | | | | |

| 3 b). 9x2-16y2+54x+64y-127=0 | |
|--|-------------|
| 4 9x2 - 16y2 + 54x + 169y = 127 | |
| 9x2 + 54x - 46y2 + 64y = 127 | |
| 9(x1+6x) - 16(y1-4y)= 127 | |
| 9(x+3)2-81-16(y-2)2+64=127 | |
| 9(x+3)2-16(y-2)2=127+81-69 | |
| 9(x+3)2 - 16(y-2)2 = 144 | |
| 9(x+3)2 - 16(y-2)2 = 1 | |
| 144 144 | (11- t)2 1 |
| $\frac{(x+3)^{2} - (y-1)^{2} = 1}{(6 - g)^{2}} = 1 \implies \frac{(x-h)^{2} - q^{2}}{q^{2}}$ | LL 2 |
| 16 9 | |
| 1 | |
| 4 mako : $q = \sqrt{16} = 4$ h = -(3) : -3 b = $\sqrt{9} = 3$ k = -(-2) = 2 | |
| C= V16+9 = 5 | |
| CE VISIS > | |
| + Titik puncok: (hta, k) | 1 |
| : (-3+4,-) adil (-3-1) | |
| : (1,2) dan (-+,2) | |
| Tilik fokus & (h t C, k) | |
| (-3+5, 2) dan (-3-5, 2) | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | |
| Asimpt $(y-2) = \pm (3/4)(x-c-3)$ | |
| $(1-2 = \pm (3/4)(x+3)$ | |
| y = ±3/4x ± 9/4 +2 | |
| $y = \pm 3/4x \pm 9/4 + 2$ y = 3/4x + 13/4 dan y = 1 | -3/4x - 1/4 |
| · · · · · · · · · · · · · · · · · · · | |
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| F CON TO THE TOP | |
| (-0.2) | |
| (-3,12) | |
| 1 -3 | |
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Nomor 4a.

| (9) | 2) Tentukan persamaan insan kerucut berikut: |
|-------------|--|
| | Parabola dengan puncak di (2,3) dan fokus di (2,5) |
| * | * Puncak $(2.3) \rightarrow (h.k)$ |
| | Fokus (2,5) -> (h,p+k) |
| * | Maka, . h = 2 . P+K = 5 |
| | • K = 3 P+3 =5 |
| | P = 2 |
| | Persamaan parabola: $(x-h)^2 = 4p(y-k)$ |
| | $(x-2)^2 = 4(2)(y-3)$ |
| | $(x-2)^2 = 8(y-3)$ |
| | x 2- 4x+4 = 8y-24 |
| | $x^2 - 4x - 8y + 28 = 0$ |

Nomor 4b.

| | NO | |
|---|-------------------------------------|------------|
| Parabola melalui fitik (-2,37,(0,37,(1,0)) 40 vertikal: (u-h)=4p(y-k) | DATE | |
| to substitus i tiap titik he puramoan: | 60 substitusi h dan P ke pusamoan (| 17: |
| (-2-h)= 4p(s-k) | (-2+1)2: 4(/8)(5-K) | |
| 4+4h+h2=12p-4pk (1) | 1 = 3/2 - 1/2 k | |
| (0-h)2: 4p(s-k) | 1/2 K = 1/2 | |
| h2 = 12p-4ph (11) | h = 1 | 1 |
| (1-h)2:4p(9-k) | 40 mala, didapat p= 1/8; h=1 | |
| 1-2h+h2: 86p-4pk (111) | Lo persamaan: | |
| Lo eliminasi persamaen (1) dan (11): | (u +1)2 = 4 (1/8) (y-1) | |
| 4 + 4h + h = 12p-4ph | (u+1)2: 1/2 (y-1) | |
| h ² = 12p - 4pk - | | |
| 4+4h : 0 | | E S |
| 4h:-4 | | |
| h:-1 | ENST PROPERTY | |
| 40 ellminasi persamaan (111) dan (111): | | 3 |
| 1-2h+h2=36p-4gk | | |
| h3 = 12p - 40k - | 100000 1000 1000 100 | e V |
| 1-2h = 14p | | N. Control |
| 2h+24p=1 | (53-5 | İ |
| 2(1) + 2(p = 1 | 1-0-2 | |
| 14p = 3 | | |
| h = 18 | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| | No. | |
|--|---|-----|
| A. c. | Fokus (12,2) | |
| | lingkaron melalui (0.0) poucok minor | |
| | Ser Control (17) | |
| | Fokus (htc, K) => (t42) | |
| | K: 2 | |
| | Pennak Minor | E. |
| | (h,kb) » (0,0) (0, K+b) | |
| | heo | |
| | * k-b=0 * 02 = c2+62 | - |
| | 2-b= 0 = 4 + 4 | |
| | b = 2 = √8 | |
| | = 25 Daysy | |
| | + h±c = ±20 (1, (7) = (1+1+12+) = (+1+14) | |
| | 0 ± C = ±2 (4-1-) = (4-5-1-) | |
| | C 2 2 mind grand for | |
| | 4480. (5-1-1: (5-1.5+E) = (5-03.0 | |
| | Personnan b- 3- 1 (5- 5-6-) | |
| | $(x-h)^{2} + (y-k)^{2} = 1$ | |
| | a2 12 (EVS+5- 5-) = (1/2) = | |
| | $(x-0) + (\lambda-5) = (x-0) + (\lambda-5) = 1$ | 769 |
| | (252) 2 8 4 | |
| | + 2 (y-2) = 8 | 1 |
| | Walt Cong | |
| | | |
| | 4-4 | |
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| The board of the last of the l | | -1 |

Nomor 4d.

| (4) | d) Hiperbola dengan puncak di (0,0) dan (0,6), | dan dengan sebuah fotus di co |
|----------|---|---|
| * | Tink puncak $(0,0)$ dan $(0,6) \rightarrow (h,kta)$ | * Pusamaan Hiperbola: |
| | Fokus (0,8) -> (h, K+C) | $\frac{(y-k)^2}{a^2} - \frac{(x-h)^2}{b^2}$ |
| * | Maka, • h = 0 | |
| | • k+a = 6 | $(y-3)^2 - (x-0)^2$ |
| | k-a=0 | 3 ² 4 ² |
| | 2k = 6 | (y-3)2 x2 |
| | k = 3 | 9 16 |
| | • k-a=0 | -9x2+16y2-96y =0 |
| | 3-0=0 | |
| | Q = 3 | |
| | • (c + C = 8 | |
| | 3 + C = 8 | |
| | C = G | |
| | • b = \(5^2 - 3^2 | |
| | b = 4 | |