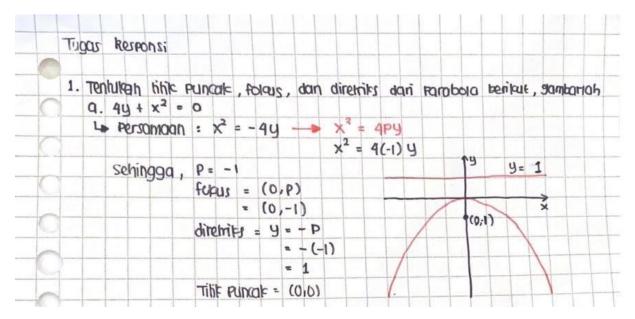
TUGAS KELOMPOK MINGGU 8

KALKULUS II

Kelompok 3:

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Nomor 1a.



Nomor 1b.

0	b) y ² = 12x	1
	y ² = 4(3) x	
	P = 3	
	* Title puncase (0,0) -3	(3,0)
	Atilik focus (3,0)	
	* Direktriks: X = -3	
	X=-3	

Nomor 2a.

a)
$$\frac{x^{2}}{64} + \frac{y^{2}}{100} = 1$$

$$\frac{x^{2}}{8^{2}} + \frac{y^{2}}{10^{2}} = 1$$

$$\frac{x^{2}}{8^{2}} + \frac{y^{2}}{10^{2}} = 1$$

$$\frac{x^{3}}{6} = 6.$$
Fokus $\frac{(0,\pm 6)}{(0,\pm 6)}$
Puncah $(0,\pm 6)$
Combar grafik.

Nomor 2b.

			No	1(0,5)
② b)	15x2 + 9y2= 225	& Tink puncak	* Grafik	(0,4)
	$\frac{1}{9}x^2 + \frac{1}{25}y^2 = 1$	(0,±5)		
	a>,6>0	♦ fokus		
	a = 5	(b. ± 4)	(-3,0)	(2,0)
	b = 3	* keeksentrikan		
	C = V52-32	e= c . 4 5		(0,-4)
	= 4			(01-5)
				COL

Nomor 3a.

No.:	Date.:
	okus, dan garis asimtut hiperbolo
berikut, serta gomborhan la	,h \
a. x2 _ y2 . 1	
144 25	
$\frac{1}{(2^2 - 5^2)} = \frac{1}{(2^2 - 5^2)}$	
· titih puncak (±12,0) · Fokus = \122 +52 = 13 =	
	(413,0)
· asimtut: y = 5 x	MARIEN CONTRACTOR CONT
9 5x	y: 12 x
	BOLIN
(47/4)	→ L
(3)	(0)

Nomor 3b.

3 b.
$$9y^{2} - x^{2} : 9 : 9 \frac{y^{2}}{1^{2}} = \frac{x^{2}}{1^{2}} : 1$$

$$0 : 1$$

$$0 : 1$$

$$0 : \frac{1}{1^{2}} = \frac{1}{1^{2$$

Nomor 4a.

4) Tentukan persamaan
a) Parabola dengan titik puncak (0,0) dan fokus (0,-2)
$$X^{2} = 4py$$

$$X^{2} = 4(-2)y$$

$$X^{2} = -8y$$

Nomor 4b.

Persamaan insan kenucut

Parabota diengan forus (1,0) dan diinertrifs
$$x = -1$$

b) Jawab

 $P = 1$
 $X = -1$

Persamaannya $Y^2 = APX$
 $Y^2 = 4(1)X$
 $Y^2 = 4X$

Nomor 5a.

6a) folius
$$(\pm 2.0)$$
; (± 0.0)
 (± 0.0) ; (± 0.0)
 $b^2 = 0^2 - 0^2$
 $b^2 = 25 - 4$
 $b^2 = 21$
 $u^2/25 + \frac{y^2}{21} = 1$

Nomor 6a.

63) Rersaman insan reducut Hirerbola

forus
$$(0, \pm 3)$$

titir puxar $(0, \pm 1)$

b) Jawab

 $c = 3$
 $a = 1$
 $c^2 = 3^1 + b^2$
 $b^2 = 9 - 1$
 $b^2 = 9 - 1$

Nomor 6b.

Persamaan:

$$y = \pm 2x$$

$$y = \pm \left(\frac{b}{a}\right)x$$

$$\frac{x^{2}}{a^{2}} - \frac{y^{2}}{b^{2}} = 1$$

$$+2x = \pm 1b \times 6x$$

$$(5) x^{2} y^{2}$$

$$\begin{array}{ll}
a = 3 & \text{Persamaan} : \\
y = \pm 2x & \frac{x^2}{q^2} - \frac{y^2}{b^2} = 1 \\
y = \pm \left(\frac{b}{a}\right)x & \frac{e^3}{3^2} - \frac{y^2}{6^2} = 1 \\
b = 6 & e^3 \frac{x^2}{3^2} - \frac{y^2}{3^6} = 1 \longrightarrow 36x^2 - 9y^2 = 324 \text{ M}
\end{array}$$