Semina W11_ 915

Ruled surface

Tonical surface

Tonoical surface

Tonoical -u

Tonoical -u

Tonoical -u

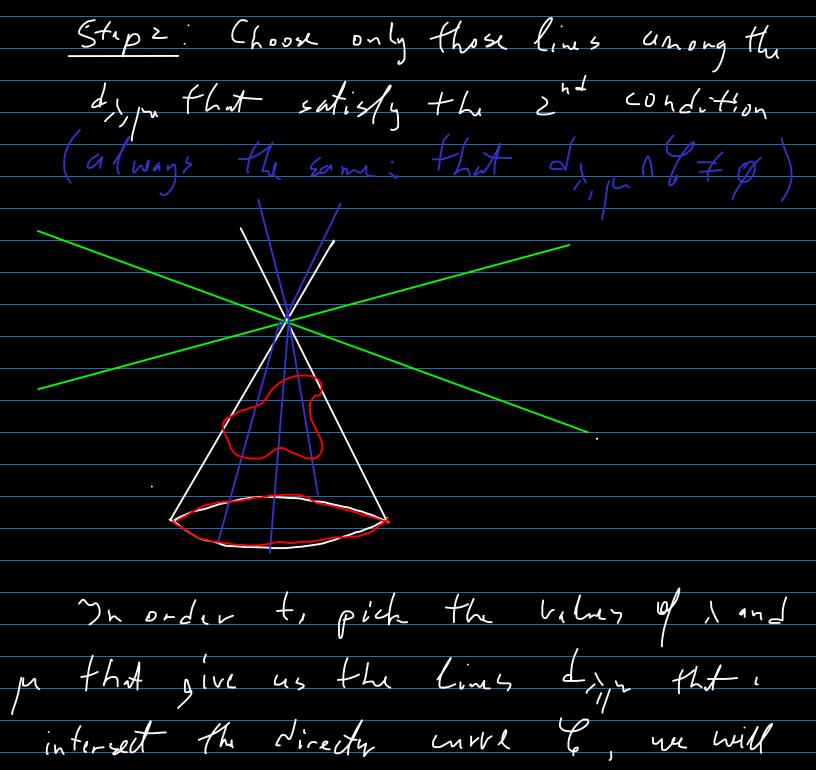
Tonoical -u

Tonoical -u

Tonoical -u

Stop 1: Write the most glowed egustion possible of a line that satisfies the 1st and tion (in our case: contains)

generation $\frac{1}{3} = \frac{1}{2} = \frac{2}{2} = \frac{2}{2} = \frac{1}{2}$ $\frac{1}{3} = \frac{1}{2} = \frac{2}{2} = \frac{1}{2} = \frac{1}{2}$ $\frac{1}{3} = \frac{1}{2} = \frac{2}{2} = \frac{1}{2}$ $\frac{1}{2} = \frac{1}{2} = \frac{2}{2} = \frac{1}{2}$ $\frac{1}{3} = \frac{1}{2} = \frac{1}{2} = \frac{2}{2} = \frac{1}{2}$ $\frac{1}{3} = \frac{1}{2} = \frac{1}{2} = \frac{1}{2}$ $\frac{1}{3} = \frac{1}{2} = \frac{1}{2} = \frac{1}{2}$ $\frac{1}{3} = \frac{1}{2} = \frac{1}{2} = \frac{1}{2}$ $\frac{1}{3} = \frac{1}{2} = \frac$ 77-7 = (a). (y-1) $\frac{4-7}{C} = \frac{a}{C}(2-1)$



solve the system.

$$\begin{cases}
\sqrt{1+2} & \sqrt{1+2} \\
\sqrt{1+2}$$

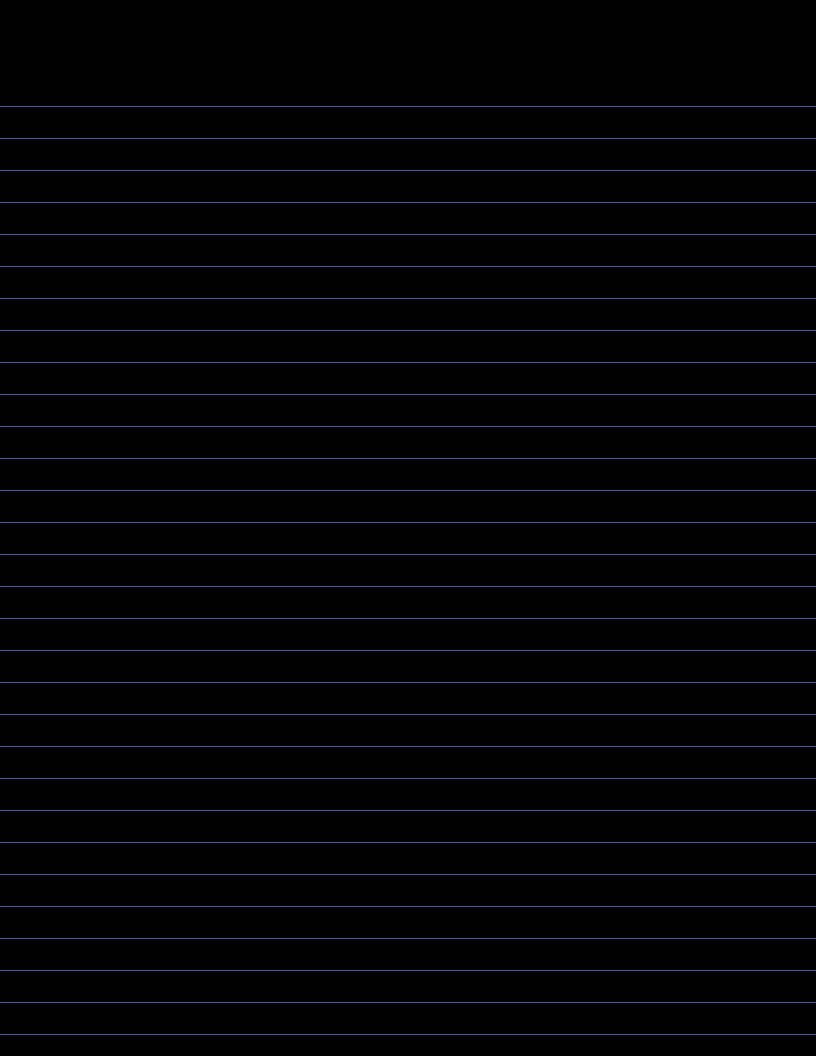
We eliminate 4, 4, 2 from the system, in order to obtain a relation baturen I and My, called the compatibility condition.

$$\begin{cases} 4 - 7 = \lambda(5 - 7) & (2 = 0) \\ 4 - 7 = \lambda(5 - 7) & (3 - 7) \\ (4^{2} + 3^{2})^{2} - 24 = 0 \\ 2 = 0 & (4^{2} + 3^{2})^{2} - 24 = 0 \end{cases}$$

Therefore the egustion of the conicd $\left(\left(\frac{2-x}{2-x}\right)^{2}+\left(\frac{2-y}{2-x}\right)^{2}-\left(\frac{2-x}{2-x}\right)^{2}=0$ 11.7. Find the equation of the cylinderical surface whose director work is the planer where Sytt=2+ X=2+and the generation is perpendicular to the plane of the director curve

the plan of the is TI: X = 22 (Seinnie & CT and Eisplanar) $\frac{1}{\sqrt{1}} = \frac{2}{\sqrt{1}} = \frac{2}{\sqrt{2}}$ (2) dir (-24-2-20-C) 4-1 ーンメーセニ〉 M2+2=2=2= X = 12

=)
$$\frac{1}{1}$$
 = $-2x - 2$ | $\frac{1}{25}$ = $\frac{1}{1}$ = $\frac{1}{25}$ = $\frac{1}{1}$ =



Conoidal surfaces 1 st condition: (d) III) md (d) nl fo 2nd condition: d) // nl fo diretar curre

TT: A XYBY +Ut + D =0

 $\begin{cases}
A_1 + B_1 + C_1 + D_2 = 0 \\
A_2 + B_2 + C_2 + D_2 = 0
\end{cases}$ $\begin{cases}
A_1 + B_2 + C_2 + D_2 = 0 \\
A_1 + B_2 + C_2 + D_2 = \lambda
\end{cases}$ $\begin{cases}
A_1 + B_2 + C_2 + D_2 = \lambda \\
A_1 + B_2 + C_2 + D_2 = \lambda
\end{cases}$

Example 11.3 Find the consider surface, whose generations and parallel to 20 y and have the director course:

Circles are parallel to 20 y the director course:

Circles Course:

Circles Are Consider the consideration that the consideration the consideration the consideration that the consideration that

T = 200 C = 0 C = 0 C = 0 C = 0 C = 0

d, 52-> 7-Mig

$$\begin{cases}
2 = \lambda \\
4 = \mu y \\
4 = \mu y
\end{cases}$$

$$\begin{cases}
4 = \mu y \\
4^2 - 2 + 2 = 0
\end{cases}$$

$$\begin{cases}
4^2 - 2 + 4 = 0
\end{cases}$$

$$\begin{cases}
4^2 - 2 + 4 = 0
\end{cases}$$

$$\begin{cases}
4 = \lambda \\
4^2 - 2 + 4 = 0
\end{cases}$$

$$\begin{cases}
4 = \lambda \\
4^2 - 2 + 4 = 0
\end{cases}$$

$$\begin{cases}
4 = \lambda \\
4^2 - 2 + 4 = 0
\end{cases}$$

$$\begin{cases}
4 = \lambda \\
4^2 - 2 + 4 = 0
\end{cases}$$

$$\begin{cases}
4 = \lambda \\
4^2 - 2 + 4 = 0
\end{cases}$$

$$\begin{cases}
4 = \lambda \\
4^2 - 2 + 4 = 0
\end{cases}$$

$$\begin{cases}
4 = \lambda \\
4^2 - 2 + 4 = 0
\end{cases}$$

$$\begin{cases}
4 = \lambda \\
4 = \mu y \\
4 = \mu y \\
4 = 0
\end{cases}$$

$$\begin{cases}
4 = \lambda \\
4 = \mu y \\
4 = 0
\end{cases}$$

$$\begin{cases}
4 = \lambda \\
4 = \mu y \\
4 = 0
\end{cases}$$

$$\begin{cases}
4 = \lambda \\
4 = \lambda \\
4 = \mu y \\
4 = 0
\end{cases}$$

$$\begin{cases}
4 = \lambda \\
4 = \mu y \\
4 = 0
\end{cases}$$

$$\begin{cases}
4 = \lambda \\
4 =$$

Revolution surfaces ? (a, L, c) any print

(choise o simple)

one P (40, 70, 2) Step 1: We don't have generatives (generating lines), but rither glue-sting circles Sphere that is perpendicular tol) (7-7) + (4-4) = >

This was sty Step 2: We find the compatibility Condition Leterm I and proby solving the system. 5 (7-7) 2+(4-40) 1+(2-20) 2= > ax+ 64+ cz = 1 $\begin{cases} h(h, y, z) = 0 \\ h(h, y, z) = 0 \end{cases}$ riplace & and pring Stops: the compatibility condition