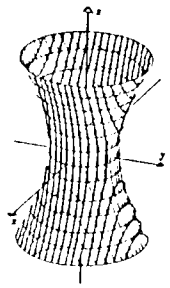
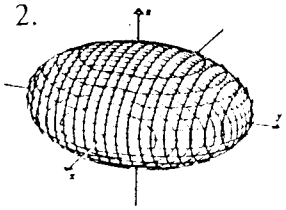
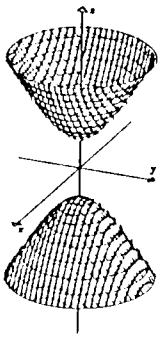
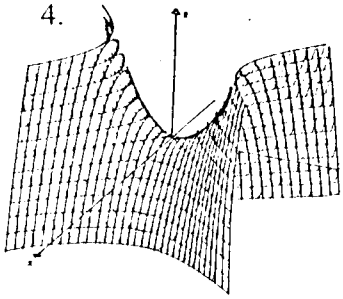
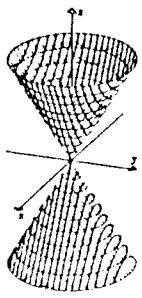
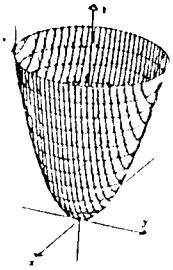
1. 

2. 

3. 

4. 

5. 

6. 

EQUATIONS

$z^2 = x^2 + y^2$

$x^2 + y^2 - z^2 = 1$

$x^2 + y^2 + z^2 = 1$

$x^2 + y^2 - z^2 = -1$

$z = y^2 - x^2$

$z = x^2 + y^2$

NAMES

paraboloid

sphere (ellipsoid)

hyperboloid of 2 sheets

hyperbolic paraboloid

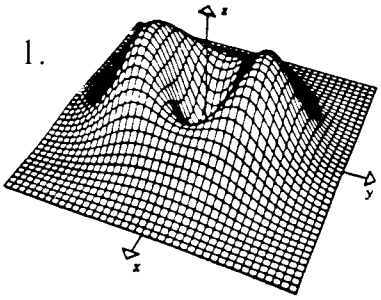
cone

hyperboloid of 1 sheet

MATCH THE SURFACE WITH ITS EQUATION AND NAME.

Surface	Equation	Name
1		
2		
3		
4		
5		
6		

1.



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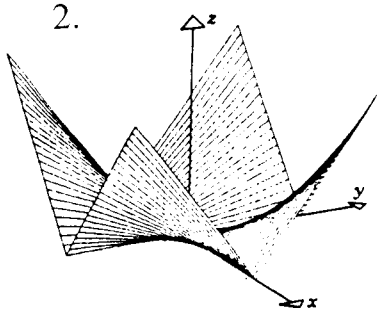

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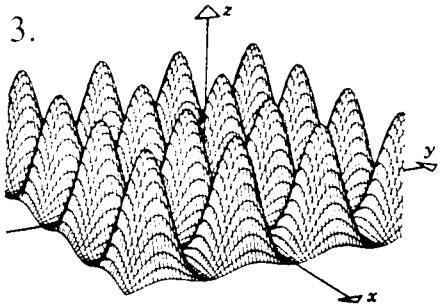

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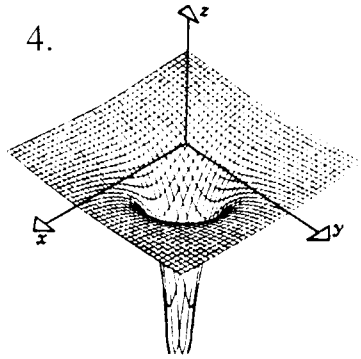

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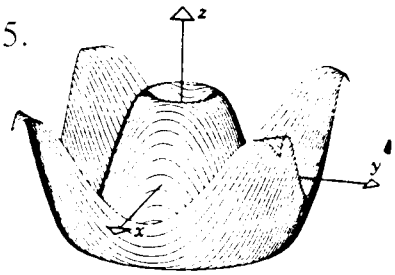

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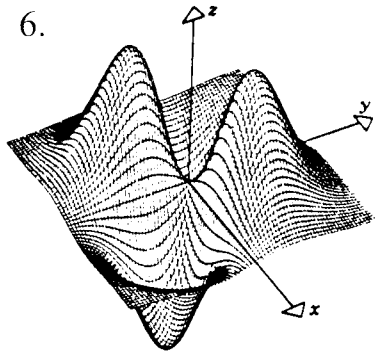

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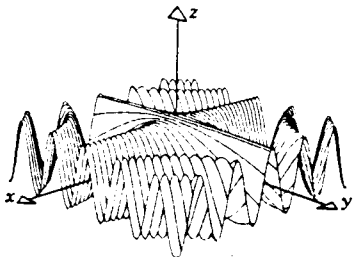

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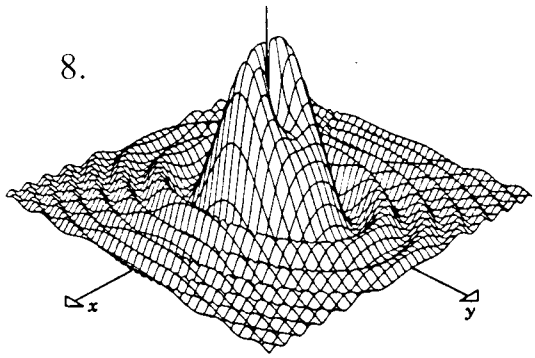

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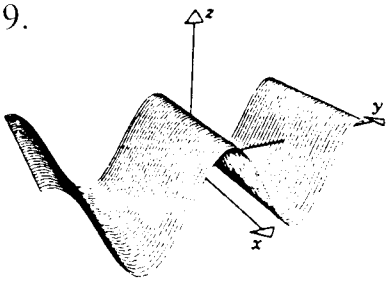

A. $z = \sin\left(\sqrt{x^2 + y^2}\right)$

B. $z = xye^{-0.5\left(x^2+y^2\right)}$

C. $z = \cos y$

D. $z = -\dfrac{1}{\sqrt{x^2 + y^2}}$

E. $z = \sin^2 x \sin^2 y$

F. $z = \dfrac{\sin\left(2x^2 + y^2\right)}{x^2 + y^2}$

G. $z = \cos(xy)$

H. $z = |x||y|$

I. $z = \left(x^2 + 2y^2\right)e^{1-x^2-y^2}$