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PDE | Heat equation: intuition

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Thus the solution of the partial differential equation is u(x,y)=f(y+ cosx).

To verify the solution, we use the chain rule and get $u_x = -\sin x f'(y+\cos x)$ and $u_y = f'(y+\cos x)$. Thus $u_x + \sin x u_y = 0$, as desired.

Students Solutions Manual PARTIAL DIFFERENTIAL EQUATIONS

C or $y + \cos x = C$.

Thus the solution of the partial differential equation is $u(x,y) = f(y+\cos x)$. To verify the solution, we use the chain rule and get $u_x = -\sin x f'(y+\cos x)$ and $u_y = f'(y+\cos x)$. Thus $u_x + \sin x u_y = 0$, as desired.

Students' Solutions Manual PARTIAL DIFFERENTIAL EQUATIONS From X#(1) = −X(1), we find that −c2μ2sinμ + c2μcosμ = −c2μcosμ − c2sinμ. Hence μ is a solution of the equation −μ2sinμ +μcosμ = −μcosμ −sinμ □ 2μcosμ

$=(\mu^2-1)\sin\mu$ Note that $\mu = \pm 1$ s not a solution and $\cos\mu = 0$ is not a possibility, since this would imply $\sin\mu = 0$ and the twoequations have no common solutions.

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DIFFERENTIAL EQUATIONS
Thus the solution of the partial differential equation is u (x, y) = f (y + Tyn,
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Introduction to Partial Differential Equations

If $c2 - 4Dr = 0$ then the roots are equal (c 2D) and the general solution has the form $u(x) = aecx/2D+bxecx/2D$. If $c2-4Dr>0$ then there are two real roots and the general solution is u(x) = aeλ+x+beλ−x. If c2−4Dr<0 then the roots are complex and the general solution is given by u(x) = aecx/2D. acos □ 4Dr−c2.

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Wave, heat,

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rule and get ux = −sinxf0 (y+ cosx) and uy = f0 (y+cosx).

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Thus by superposition, u (x, t) = e n=1 L RL P nπx 2 nπx the initial conditions u (x, 0) = f (x) = ∑ b sin yields b = n n=1 n L L 0 f (x) sin L dx. As t → ∞, u → 0, the only equilibrium ...

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x3=2sinx x1=2cosxC 3 4 x1 =2sinxCx1=2cosx 1 2

x1=2sinxCx3=2sin x 1 4 x1=2sinx Cc2. x3=2cosxCx1 =2sinxC 3 4 x1=2cosx x1=2sinx 1 2 x1=2 cosxCx3=2cosx 1 4 x1=2cosx C4xC x2. 1 4 .4xC8/D 4x3C8x2C 3x 2. 1.2.4. (a) If y0D xex, thenyD xexC R exdxCcD .1 x/exCc, and y.0/D 1) 1D

1Cc, so cD 0and yD .1 x/ex.

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