44-203 $x^{2}+y^{2}=r^{2}$ $dA = rdrd\theta$ $\Rightarrow 0.46 = 70, r > 0.$

HUCDY 2 a) Here dx = 5, x>0. d clearly not integrable, y = 0. But by how of is deduced, there are no heat sinks at ±00. Here we'd expect total heat profile to level out and flow to the average value as host is not being allowed to leave the system.

That is, we expect Mx, +1 -> 5+1 -3 as +->00. DUX,+1= (exp[-1x-y1] \$19 dy, 1 / (0 exp[-(x-y)^2] dy + 5 (0 exp[-(x-y)^2] d Let z=x-y, $dz=-dy \leftrightarrow dy=-14kt dz$ $U(x_{+}) = \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}{d^{2}} \right) + \frac{1}{4\pi t} \left(\frac{x_{+}}{e^{-2t}} - \frac{1}{4\pi t} \frac{1}$ $\frac{1}{\pi} \int_{X_{\mu}}^{\infty} e^{-\frac{2^{3}}{3}} dz + \frac{5}{5\pi} \int_{-\infty}^{X/\sqrt{4k}} e^{-\frac{2^{3}}{3}} dz$

$$= \frac{1}{\sqrt{100}} \left(\frac{\sqrt{100}}{\sqrt{100}} + \frac{2^{3}}{\sqrt{10}} \right) + \frac{1}{\sqrt{10}} \left(\frac{\sqrt{100}}{\sqrt{100}} + \frac{2^{3}}{\sqrt{100}} \right) + \frac{1}{\sqrt{100}} \left(\frac{\sqrt{10$$

U(x,L exp [-(x-y)] -/y+akt-x)) (exp[-[4+(dk+x)]] d y + (2kt -x) V4kT+ 2/2+x V4x+ -22

HUCPK - I Clx-y + 4kty) X-dxy +y + 4kty x2 +(4kt-2x)4 +42 x2 + y2 + 14kt-2x)y + (4kt-2x) - /2kt-x x2-(4ktx+x2)+(y+6kt-x)) -4k2+2+4ktx + (4+(9kt-x)) + - 1 [-4k2+ +4k+x + (y+(2k+-x)) = [kt-x # (y+akt-x)]

HUKpb UI + Asint u = kux a) MIA = exp[[Asit] = e-Acit b) etul + Asinte destu - Le Acost 1 = 0 delétestu) - Elétestus =0 let V(++)= e Auxt c) $y_{1}-y_{1}=e^{-\lambda y_{1}}$ = $e^{-\lambda y_{1}}$ = $e^{-\lambda y_{1}}$ V(X,4) = 1 (exp/-k-y) = 4 (4) = (4) c) $u(x,t) = e^{Acost} v(x,t)$ = exp[Acost - A] (exp[-(x-y)]) $= \frac{1}{4kx} I III$