









25/u/8	morn 3 - 5'5' [61' + 6x + 2xyty] dydx - 5' [6x'9+41y+1y' + 4'] \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
-	$= \left[2x^{3} + 2x^{2} + \frac{x^{2}}{2} + \frac{x^{2}}{2}\right]_{x=3}^{x}$ $= \left[2x^{3} + 2x^{2} + \frac{x^{2}}{2} + \frac{x^{2}}{2}\right]_{x=3}^{x}$ $= 2 + 2 + \frac{1}{2} + \frac{1}{2} = 5$ Example: Find the flux of $f^{2}(x,y,z) = \frac{x^{3}}{2} + \frac{y^{2}}{3} + \frac{z^{2}}{3} = across the region enclosed by the homothere. z = \sqrt{c^{2} + x^{2} - y^{2}} and plane z = 0$
	Solution: $div \vec{F} = \frac{dr}{dr} \left(\frac{r^2}{r^2} \right) + \frac{dr}{dr} \left($
	= 52 m of [-10 of 4=0 = 52 m of [-10 of 4=0
()	$-g^{2rr} \stackrel{Q^*}{V} db = \frac{2\pi\sigma^*}{5}$ $Nu. J^{rrh} sn \varphi du = 1$













