a) 5' idx x+4 = [loge(I+4)] 2 (loge 1+4) - (loge 0) = 10 ge5 - 1 6 = KMZ 18600 = K 703 18600 = 16.9849#9252 K K = 100905. (38. 1(310).... K = 1095. 08438 Human body mass 60 L S= 1095.08438×603 5=16783.47 (2dp).

R D O F S T U D I E S - (x2q) $\frac{dy}{dx} = \frac{2x}{x^2 - 9}$ 11 U=x $V=e^{x}$ X ex du=1 du= ex Using auchent rule Vdu-udv V2 $=e^{\chi}(i)-\chi(e^{\chi})$ $(e^{x})^{2}$ $= e^{x} - xe^{x}$ $\left(e_{\mathbf{x}}^{\mathbf{x}}\right)^{2}$ $= e^{\chi}(1-\chi)$ (ex)2

01WB4

BOARD OF STUBLES a a2= b2+c2-2bc(05A a² = 72+132 - 2×7×13 (0560 $a^2 = 36 \times 1$ $a^2 = 18$ $a = \sqrt{18}$ $= \sqrt{9} \times \sqrt{2}$ $\cos h = a^2 + b^2 - (z)$ a = 352 + x2-7x=12077 $COSA = b^2 - c^2 + a^2$ 2 bC COSA? Cos A = 2tr 132 - 72 + x2 2×13×7 cosn CosA = 120 + x2 $\cos 60 = b^2 + c^2 - a^2$ 250 $= 13^2 + 7^2 - a^2$ 2×13×7 Los 60 - 218 - a2 182 $cos60 \ ta^2 = 2.18$ 01WB4