MATZOZE HW3 Nadir Dogar 110180807 Q3-Given Length S= SI+(dy)dx, y=ex2 dy = d (e') = e'. 2 y = 2 x e x 2 S = S (1+(2xex)) dx = | S (1+hx2e2x2dx) c) Gauss [a, b] = [1, 2] Nadir Doğan 17 17 17 No180807  $x = \frac{b+a}{2} + \frac{b-a}{2} = \frac{1+2}{2} + \frac{2-1}{2} + \frac{3}{2} + \frac{1+2}{2}$  $dr = \frac{1}{2}dt$   $f = \frac{1}{2} \sqrt{1 + (3 + \frac{1}{4}n)^2} e^{(3 + \frac{1}{4}n)^2}$