

① Find $\iint_{ABC} \frac{dx dy}{xy}$ where $\begin{cases} A = (1, 1) \\ B = (3, 6) \\ C = (7, 3) \end{cases}$ HW41

② Find the average value of x^2 in the pentagon ABCDE where $A = (0, 0)$; $B = (4, 1)$; $C = (3, 5)$; $D = (-2, 4)$; $E = (-3, 1)$.

Hint: cut the pentagon into 3 triangles.