2407 NO.) Day Tip : => P(x) 2'(x) -p'(x) 2(x) = (a,-a2) P(x) 2(x) since Pexa. 2(x) is not uniformly o $\frac{9'(x)}{9(x)} = (\alpha_1 - \alpha_2) + \frac{p'(x)}{p(x)}$ by integrating with respect to oc both sides we get In 900) = (42-41) x + In P(00) +C $\frac{Q(x) = P(x) e}{} = \frac{(\alpha_2 - \alpha_1)x}{k} - ci$ in (i) 9 (20) and P(20) Rame finite polynomial terms but ecaz-ai) x has infinite polynomial expression, hense equation cannot be hold unless a, = az which contradict our initial condition (a, #a2) two polyex terms are linearly independent