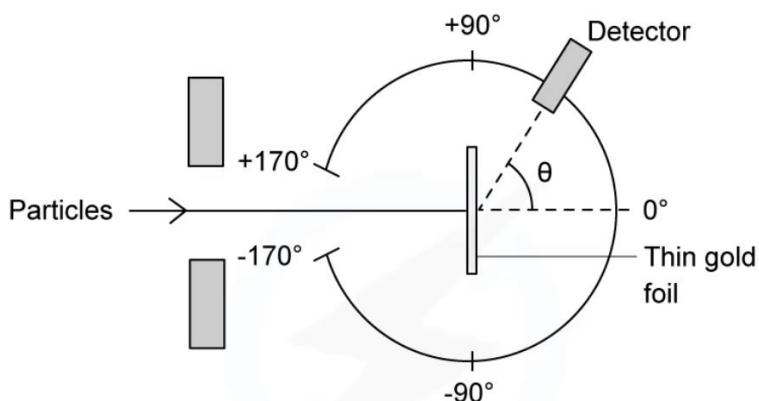


- 29 In repeating Rutherford's alpha particle scattering experiment, a student used the apparatus shown, in a vacuum, to determine  $n$  the number of alpha particles incident per unit time on a detector held at various angular positions  $\theta$ .



Which graph best represents the variation of  $n$  with  $\theta$ ?

