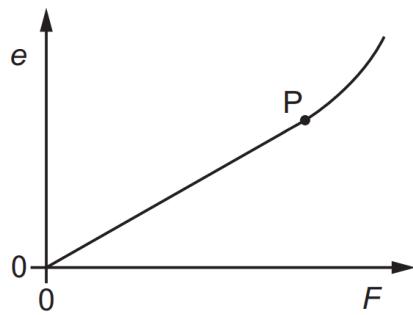


- 6 Forces are applied to the ends of a rod so that its length increases. The variation with force  $F$  of the extension  $e$  of the rod is shown.



The point  $P$  is the elastic limit. Plastic deformation occurs when the rod is extended beyond point  $P$ , causing it to be permanently distorted.

Which shaded area represents the work done during the plastic deformation of the rod?

