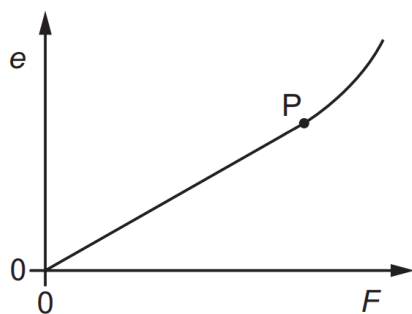


- 6 Forces are applied to the ends of a rod so that its length increases. The variation with force  $F$  of the extension  $e$  of the rod is shown.



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?

