

19 A The screw owes its usefulness to the mechanical advantage it confers. It is an inclined plane wrapped up.





19 B



The curve is in fact the *involute to a circle*, which approaches the Archimedean spiral as the radius of the bolt thread tends to zero. (In **5** the tractrix is the involute to a *catenary* and, inversely, the catenary is the *evolute* to the tractrix.)