

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.)

