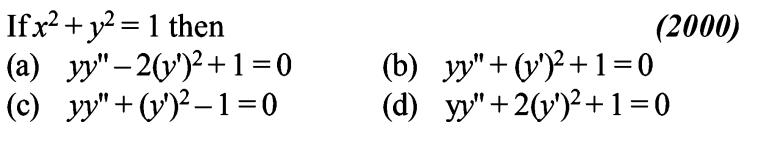
JEE Advanced/ IIT-JEE

PROBLEM



(b)
$$x^{2} + y^{2} = 1 \Rightarrow 2x + 2yy' = 0 \Rightarrow x + yy' = 0$$

 $\Rightarrow 1 + yy'' + (y')^{2} = 0 \Rightarrow yy'' + (y')^{2} + 1 = 0$