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\\\\cos t \\\\end{array} \\\\right. ,$$其中函数f(1)具有连续导数,且$$f \\\\left( 0 \\\\right) = 0 , f \' \\\\left( t \\\\right) > 0 \\\\left( 0 < t < \\\\frac { \\\\pi } { 2 } \\\\right)$$若曲线L的切线与x轴的交点到切点的距离恒为1,求函数f(t)的表达式,并求以曲线L及x轴和y轴为边界的区域的面积.","pos\_list":[[{"x":128,"y":88},{"x":1593,"y":89},{"x":1593,"y":290},{"x":128,"y":289}]],"content\_list":[{"type":1,"prob":99,"string":"已知曲线","option":"","pos":[{"x":132,"y":118},{"x":275,"y":118},{"x":275,"y":149},{"x":132,"y":149}]},{"type":2,"prob":89,"string":"$$L : \\\\left\\\\{ \\\\begin{array}{l} x = f \\\\left( t \\\\right) , t \\\\le t \\\\le \\\\frac { \\\\pi } { 2 } \\\\\\\\ y = \\\\cos t \\\\end{array} \\\\right. ,$$","option":"","pos":[{"x":285,"y":88},{"x":650,"y":89},{"x":650,"y":182},{"x":285,"y":181}]},{"type":1,"prob":92,"string":"其中函数f(1)具有连续导数,且","option":"","pos":[{"x":650,"y":103},{"x":1124,"y":105},{"x":1123,"y":174},{"x":650,"y":172}]},{"type":2,"prob":99,"string":"$$f \\\\left( 0 \\\\right) = 0 , f \' \\\\left( t \\\\right) > 0 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