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,$$试求:(1)切点A的坐标;(2)过切点A的切线方程;(3)由上述所围平面图形绕x轴旋转一周所成旋转体的体积.","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":0,"y":1404},{"x":1353,"y":1404},{"x":1353,"y":2006},{"x":0,"y":2006}]],"pos\_list":[[{"x":71,"y":1404},{"x":1245,"y":1404},{"x":1245,"y":1690},{"x":71,"y":1690}]],"element\_list":[{"type":0,"text":"六、(本题满分8分)","pos\_list":[[{"x":71,"y":1405},{"x":316,"y":1404},{"x":316,"y":1428},{"x":71,"y":1428}]],"content\_list":[{"type":1,"prob":99,"string":"六、(本题满分8分)","option":"","pos":[{"x":71,"y":1405},{"x":316,"y":1404},{"x":316,"y":1428},{"x":71,"y":1428}]}]},{"type":0,"text":"过曲线$$y = x ^ { 2 } \\\\left( x \\\\ge 0 \\\\right)$$上某点A处作一切线,使之与曲线以及x轴所围图形的面积为$$\\\\frac { 1 } { 1 2 } ,$$试求:","pos\_list":[[{"x":112,"y":1450},{"x":1240,"y":1448},{"x":1240,"y":1549},{"x":112,"y":1551}]],"content\_list":[{"type":1,"prob":99,"string":"过曲线","option":"","pos":[{"x":112,"y":1469},{"x":211,"y":1469},{"x":211,"y":1519},{"x":112,"y":1519}]},{"type":2,"prob":99,"string":"$$y = x ^ { 2 } \\\\left( 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