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z ^ { 2 } \\\\right) d x + \\\\left( 2 z ^ { 2 } - x ^ { 2 } \\\\right) d y + \\\\left( 3 x ^ { 2 } - y ^ { 2 } \\\\right) d z ,$$其中L是平面x+y+z=2与柱面x|+|y|=1的交线,从z轴正向看去,L为逆时针方向","pos\_list":[[{"x":79,"y":1544},{"x":1566,"y":1541},{"x":1566,"y":1676},{"x":79,"y":1679}]],"content\_list":[{"type":1,"prob":99,"string":"计算","option":"","pos":[{"x":79,"y":1557},{"x":153,"y":1557},{"x":153,"y":1612},{"x":79,"y":1612}]},{"type":2,"prob":97,"string":"$$I = \\\\phi \_ { L } \\\\left( y ^ { 2 } - z ^ { 2 } \\\\right) d x + \\\\left( 2 z ^ { 2 } - x ^ { 2 } \\\\right) d y + \\\\left( 3 x ^ { 2 } - y ^ { 2 } \\\\right) d z ,$$","option":"","pos":[{"x":153,"y":1544},{"x":959,"y":1544},{"x":959,"y":1617},{"x":153,"y":1617}]},{"type":1,"prob":99,"string":"其中L是平面","option":"","pos":[{"x":959,"y":1548},{"x":1212,"y":1545},{"x":1212,"y":1600},{"x":959,"y":1603}]},{"type":1,"prob":99,"string":"x+y+z=2","option":"","pos":[{"x":1212,"y":1563},{"x":1445,"y":1561},{"x":1445,"y":1601},{"x":1212,"y":1602}]},{"type":1,"prob":99,"string":"与柱面","option":"","pos":[{"x":1445,"y":1542},{"x":1566,"y":1542},{"x":1566,"y":1597},{"x":1445,"y":1597}]},{"type":1,"prob":99,"string":"x|+|y|=1","option":"","pos":[{"x":102,"y":1630},{"x":320,"y":1629},{"x":320,"y":1679},{"x":102,"y":1679}]},{"type":1,"prob":99,"string":"的交线,从z轴正向看去,L为逆时针方向","option":"","pos":[{"x":320,"y":1633},{"x":959,"y":1633},{"x":959,"y":1672},{"x":320,"y":1672}]}]}]}]},{"part\_title":"七、(本题满分7分)","pos\_list":[[{"x":77,"y":1745},{"x":1571,"y":1746},{"x":1571,"y":2299},{"x":77,"y":2299}]],"subject\_list":[{"index":0,"type":15,"num\_choices":0,"prob":0,"text":"设有一高度为h(t)(t为时间)的雪堆在融化过程中,其侧面满足方程$$z = h \\\\left( t \\\\right) - \\\\frac { 2 \\\\left( x ^ { 2 } + y ^ { 2 } \\\\right) } { h \\\\left( t \\\\right) }$$(设长度单位为厘米,时间单位为小时),已知体积减少的速率与侧面积成正比(比例系数0.9),问高度为46","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":0,"y":2109},{"x":1654,"y":2109},{"x":1654,"y":2339},{"x":0,"y":2339}]],"pos\_list":[[{"x":67,"y":2109},{"x":1581,"y":2109},{"x":1581,"y":2271},{"x":67,"y":2271}]],"element\_list":[{"type":0,"text":"设有一高度为h(t)(t为时间)的雪堆在融化过程中,其侧面满足方程$$z = h \\\\left( t \\\\right) - \\\\frac { 2 \\\\left( x ^ { 2 } + y ^ { 2 } \\\\right) } { h \\\\left( t \\\\right) }$$(设长度单位为厘米,时间单位为小时),已知体积减少的速率与侧面积成正比(比例系数0.9),问高度为46","pos\_list":[[{"x":77,"y":2109},{"x":1571,"y":2109},{"x":1571,"y":2299},{"x":77,"y":2299}]],"content\_list":[{"type":1,"prob":99,"string":"设有一高度为","option":"","pos":[{"x":77,"y":2126},{"x":298,"y":2126},{"x":298,"y":2176},{"x":77,"y":2176}]},{"type":1,"prob":99,"string":"h(t)(t","option":"","pos":[{"x":298,"y":2132},{"x":404,"y":2132},{"x":404,"y":2172},{"x":298,"y":2172}]},{"type":1,"prob":99,"string":"为时间)的雪堆在融化过程中,其侧面满足方程","option":"","pos":[{"x":404,"y":2126},{"x":1137,"y":2126},{"x":1137,"y":2176},{"x":404,"y":2176}]},{"type":2,"prob":99,"string":"$$z = h \\\\left( t \\\\right) - 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