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=$$","option":"","pos":[{"x":60,"y":691},{"x":370,"y":687},{"x":371,"y":776},{"x":61,"y":780}]},{"type":1,"prob":85,"string":".","option":"","pos":[{"x":371,"y":699},{"x":497,"y":699},{"x":497,"y":765},{"x":371,"y":765}]},{"type":1,"prob":100,"string":"\_\_\_\_","option":"","pos":[{"x":377,"y":739},{"x":486,"y":739},{"x":486,"y":751},{"x":377,"y":751}]}]}]},{"index":1,"type":1,"num\_choices":0,"prob":0,"text":"(10)设函数f(x)连续,$$\\\\varphi \\\\left( x \\\\right) = \\\\int \_ { 0 } ^ { x ^ { 2 } } x f \\\\left( t \\\\right) d t .$$若φ(1)=1,φ\'(1)=5,则f(1)=\_\_\_\_","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":1279,"y":815},{"x":1389,"y":815},{"x":1389,"y":854},{"x":1279,"y":854}]],"pos\_list":[[{"x":54,"y":792},{"x":1408,"y":792},{"x":1408,"y":872},{"x":54,"y":872}]],"element\_list":[{"type":0,"text":"(10)设函数f(x)连续,$$\\\\varphi \\\\left( x \\\\right) = \\\\int \_ { 0 } ^ { x ^ { 2 } } x f \\\\left( t \\\\right) d t .$$若φ(1)=1,φ\'(1)=5,则f(1)=\_\_\_\_","pos\_list":[[{"x":55,"y":791},{"x":1390,"y":794},{"x":1389,"y":873},{"x":54,"y":871}]],"content\_list":[{"type":1,"prob":99,"string":"(10)设函数f(x)连续,","option":"","pos":[{"x":54,"y":810},{"x":431,"y":811},{"x":431,"y":854},{"x":54,"y":853}]},{"type":2,"prob":99,"string":"$$\\\\varphi \\\\left( x \\\\right) = \\\\int \_ { 0 } ^ { x ^ { 2 } } x f \\\\left( t \\\\right) d t 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1$$确定,则dz|(0,0)=.\_\_\_\_","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":1118,"y":891},{"x":1229,"y":891},{"x":1229,"y":928},{"x":1118,"y":928}]],"pos\_list":[[{"x":56,"y":882},{"x":1250,"y":882},{"x":1250,"y":934},{"x":56,"y":934}]],"element\_list":[{"type":0,"text":"(11)若函数z=z(x,y)由方程$$e ^ { x + 2 y + 3 z } + x y z = 1$$确定,则dz|(0,0)=.\_\_\_\_","pos\_list":[[{"x":64,"y":881},{"x":1240,"y":883},{"x":1239,"y":934},{"x":64,"y":933}]],"content\_list":[{"type":1,"prob":99,"string":"(11)若函数","option":"","pos":[{"x":64,"y":891},{"x":258,"y":891},{"x":258,"y":925},{"x":64,"y":925}]},{"type":1,"prob":99,"string":"z=z(x,y)","option":"","pos":[{"x":258,"y":888},{"x":421,"y":888},{"x":421,"y":931},{"x":258,"y":931}]},{"type":1,"prob":99,"string":"由方程","option":"","pos":[{"x":421,"y":891},{"x":553,"y":892},{"x":553,"y":925},{"x":421,"y":925}]},{"type":2,"prob":99,"string":"$$e ^ { x + 2 y + 3 z } + x y z = 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的解,且在处y(x)取得极值3,则y(x=.\_\_\_\_","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":167,"y":998},{"x":279,"y":998},{"x":279,"y":1036},{"x":167,"y":1036}]],"pos\_list":[[{"x":64,"y":941},{"x":1595,"y":941},{"x":1595,"y":1041},{"x":64,"y":1041}]],"element\_list":[{"type":0,"text":"(12)设函数 y\'+y\'-2y=0 x=0","pos\_list":[[{"x":64,"y":942},{"x":1130,"y":943},{"x":1130,"y":987},{"x":64,"y":985}]],"content\_list":[{"type":1,"prob":99,"string":"(12)设函数","option":"","pos":[{"x":64,"y":946},{"x":257,"y":946},{"x":256,"y":979},{"x":64,"y":979}]},{"type":1,"prob":97,"string":"y\'+y\'-2y=0","option":"","pos":[{"x":599,"y":942},{"x":857,"y":943},{"x":857,"y":986},{"x":599,"y":986}]},{"type":1,"prob":99,"string":"x=0","option":"","pos":[{"x":1043,"y":945},{"x":1130,"y":945},{"x":1130,"y":981},{"x":1043,"y":981}]}]},{"type":0,"text":"y=y(x))是微分方程 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, - 2 , 1 , B = A ^ { 2 } - A + E ,$$其中E为3阶单位矩阵,则行列式|B|=.\_\_\_\_","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":142,"y":1108},{"x":249,"y":1108},{"x":249,"y":1147},{"x":142,"y":1147}]],"pos\_list":[[{"x":54,"y":1048},{"x":1600,"y":1048},{"x":1600,"y":1152},{"x":54,"y":1152}]],"element\_list":[{"type":0,"text":"(13)设3阶矩阵A的特征值为$$2 , - 2 , 1 , B = A ^ { 2 } - A + E ,$$其中E为3阶单位矩阵,则行列式|B|=.\_\_\_\_","pos\_list":[[{"x":54,"y":1049},{"x":1594,"y":1048},{"x":1594,"y":1143},{"x":54,"y":1144}]],"content\_list":[{"type":1,"prob":99,"string":"(13)设3阶矩阵A的特征值为","option":"","pos":[{"x":54,"y":1056},{"x":543,"y":1055},{"x":543,"y":1087},{"x":54,"y":1087}]},{"type":2,"prob":99,"string":"$$2 , - 2 , 1 , B = A ^ { 2 } - A + E 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\\\\left( x \\\\right) = x + a \\\\ln \\\\left( 1 + x \\\\right) + b x \\\\sin x , g \\\\left( x \\\\right) = k x ^ { 3 } .$$若f(x)与g(x)在x→0时是等价无穷小,求a,b,k的值.","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":0,"y":1328},{"x":1654,"y":1328},{"x":1654,"y":1813},{"x":0,"y":1813}]],"pos\_list":[[{"x":53,"y":1328},{"x":1603,"y":1328},{"x":1603,"y":1479},{"x":53,"y":1479}]],"element\_list":[{"type":0,"text":"(15)(本题满分10分)","pos\_list":[[{"x":53,"y":1329},{"x":419,"y":1328},{"x":420,"y":1360},{"x":53,"y":1361}]],"content\_list":[{"type":1,"prob":99,"string":"(15)(本题满分10分)","option":"","pos":[{"x":53,"y":1329},{"x":419,"y":1328},{"x":420,"y":1360},{"x":53,"y":1361}]}]},{"type":0,"text":"设函数$$f \\\\left( x \\\\right) = x + a \\\\ln \\\\left( 1 + x \\\\right) + b x \\\\sin x , g \\\\left( x \\\\right) = k x ^ { 3 } .$$若f(x)与g(x)在x→0时是等价无穷小,求a,b,k的值.","pos\_list":[[{"x":139,"y":1379},{"x":1593,"y":1370},{"x":1593,"y":1461},{"x":139,"y":1470}]],"content\_list":[{"type":1,"prob":99,"string":"设函数","option":"","pos":[{"x":140,"y":1387},{"x":253,"y":1387},{"x":254,"y":1420},{"x":141,"y":1421}]},{"type":2,"prob":99,"string":"$$f \\\\left( x \\\\right) = x + a \\\\ln \\\\left( 1 + x \\\\right) + b x \\\\sin x , g \\\\left( x \\\\right) = k x ^ { 3 } 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.$$D","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":0,"y":1813},{"x":1654,"y":1813},{"x":1654,"y":2339},{"x":0,"y":2339}]],"pos\_list":[[{"x":52,"y":1813},{"x":1297,"y":1813},{"x":1297,"y":1974},{"x":52,"y":1974}]],"element\_list":[{"type":0,"text":"(16)(本题满分10分)","pos\_list":[[{"x":53,"y":1820},{"x":419,"y":1820},{"x":419,"y":1852},{"x":53,"y":1852}]],"content\_list":[{"type":1,"prob":99,"string":"(16)(本题满分10分)","option":"","pos":[{"x":53,"y":1820},{"x":419,"y":1820},{"x":419,"y":1852},{"x":53,"y":1852}]}]},{"type":0,"text":"计算二重积分$$\\\\int { x \\\\left( x + y \\\\right) d x d y , }$$其中$$D = \\\\left\\\\{ \\\\left( x , y \\\\right) | x ^ { 2 } + y ^ { 2 } \\\\le 2 , y \\\\ge { x ^ { 2 } } \\\\right\\\\} 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.$$","option":"","pos":[{"x":702,"y":1885},{"x":1276,"y":1882},{"x":1277,"y":1932},{"x":702,"y":1936}]},{"type":1,"prob":99,"string":"D","option":"","pos":[{"x":366,"y":1945},{"x":384,"y":1945},{"x":384,"y":1960},{"x":366,"y":1960}]}]}]}]}],"prism\_version":"1.0.9","prism\_wnum":0,"width":1654}', 'RequestId': '9E415764-73FA-521B-BFDE-AF033025D8DD'}}