

Hyperbolic

[MTH422] Find the characteristics of $(u_{xx} - x^2 u_{yy} = 0)$
 $(x^2 \pm 4\sqrt{y})$

[MTH422] Which type of equation is $(u_{xx} + 2u_{xy} + xu_{yy} = 0)$
Hyperbolic

[MTH422] Which of the following shows that the following PDE is elliptic
 $(3u_{xx} + 2u_{xy} + xu_{yy} = 0)$
 $(b^2 - ac = -14 < 0)$

[MTH422] Which type of equation is
 $(u_{xx} + u_{xy} + 5u_{yx} + u_{yy} + 2u_{yz} + u_{zz} = 0)$
Hyperbolic

[MTH422] Which type of equation is
 $(u_{xx} + u_{xy} + 5u_{yx} + u_{yy} + 2u_{yz} + u_{zz} = 0)$
Hyperbolic

[MTH422] Find the characteristics of $(4u_{xx} - 12u_{xy} + 9u_{yy} - 2u_x + u = 0)$
 $(2y - 3x = \text{const})$

[MTH422] Which of the following shows that the following PDE is parabolic
 $(u_{xx} + yu_{yy} = 0)$
for $y = 0$

[MTH422] Which of the following shows that the following PDE is hyperbolic
 $(u_{xx} + yu_{yy} = 0)$
for $y < 0$

[MTH422] Which of the following shows that the following PDE is elliptic
 $(u_{xx} + yu_{yy} = 0)$
for $y > 0$

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