Hyperbolic

[MTH422] Find the characteristics of $u_{xx}-x^2yu_{yy}=0$
$x^2\pm4\sqrt{y}$

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

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

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

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

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

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

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

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