Bescriptive question "

$$8 u_{xx} + 2u_{xy} - 3u_{yy} = 0$$

Here  $B = 2$ ,  $A = 8$ ,  $C = -3$ .

 $B^2 - 4 A C = 4 + 96 = 100$  (70)

"Hyperbotic"

"1-marks"

 $4y = \frac{B \pm \sqrt{B^2 + 4} A C}{2A}$ 
 $= \frac{3}{4}$ ,  $-\frac{1}{2}$ 
 $y = -\frac{1}{2}x + C_2$ 
 $y = \frac{3}{4}x + C_1$ ,  $y = -\frac{1}{2}x + C_2$ 
 $y = \frac{3}{4}x + C_1$ 
 $y = \frac{3}{4}x + C_2$ 
 $y = \frac{3}{4}x + C_1$ 
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 $y = -\frac{1}{2}x + C_2$ 

direttes the Expression

Most students bill use and for A, B, C, D, E, F, G as done in After computation they will get Lichnes  $\overline{A} = 6 = \overline{C} = \overline{D} = \overline{E} = \overline{F} = \overline{G}$ Of they do not compute all of their  $\sqrt{B} = -25/2$ marky marks for writing the coopers cannonical for correctly

NOTICE

Stadents may use different

change of variable S(x,y) = 4y - 3X S(x,y) = 2y + X S(x,y) = 2y + XAll the other marking scheme stags same S(x,y) = 100

Even