

G. Solve: 
$$(2x+1)^2 d_y^2 - 2(2x+1) d_y - 12y = 6x$$

Sol: Let  $D = d$ 

Let  $2x+1 = e^2 \Rightarrow d = \log(2x+1)$ 

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From  $0 \Rightarrow x = e^2 - 1$ 
 $2x+1 \Rightarrow e^2 \Rightarrow d = \log(2x+1)$ 
 $2x+1 \Rightarrow e^2 \Rightarrow e^2$ 

$$D^{2}-2p'-3 = 3$$

$$= 3 \qquad e^{2} \qquad -e^{0} \qquad (Type 1)$$

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