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Lokesha 10 MAT11 10 2011 4. Find the

nth derivative of  $e^{2x} \cos^2 x \sin x$  Solution

: > > let  $y = e^{2x} \cos^2 x \sin x = e^{2x} \quad 2$

$1 \cos^2 x \sin x$  ie.,  $2 e^y$  Engineering

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An easy one to start with.  $y = Ae - 4t$   $dy = -4Ae - 4t dt$   $dy$  LHS =  $-4Ae - 4t$  , RHS =  $-4y$   
 $= -4Ae - 4t$  LHS = RHS X  $dt$  The left-hand side and right-hand side are equal for all t, so the solution given was correct.  $d^2 y dy B ...$   
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