

Quiz 5b**Calculus 2****4/2/04**

Each problem is worth 5 points. For full credit provide proper justification for your answer.

1. Determine whether $y = 3\sin 2x$ is a solution to the differential equation $\frac{d^2 y}{dx^2} = -4y$.

2. Determine whether the function $y = 3xe^{-x}$ is a solution to the differential equation $3y + y' = y/x$.

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