Attendance Quiz for Lecture 13

NAME: (print!) _____ **Section:** _____

E-MAIL ADDRESS: (print!) _____

1. Find product solutions, if possible, to the partial differential equation

$$2\frac{\partial u}{\partial x} + 3\frac{\partial u}{\partial y} = 0 \quad .$$

2. Check that $u_1(x, y) = 2\sin(x + y) + 3e^{x+y}$ is a solution of

$$\frac{\partial^2 u}{\partial x^2} - \frac{\partial^2 u}{\partial y^2} = 0$$