QUIZ 1 - MATH 251 YOUR NAME:

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Employ the "trick" used in class o write an equation in Cartesian coordinates for the curve C given in polar coordinates by $r = 2\cos\theta + 8\sin\theta$. Then put the resulting equation in standard form and describe the curve C.

2. Find the area of the shaded region.

