

Instructions: You can earn up to 6 points back on your exam 1 score by working the problem given below. You may not consult with anyone else on this assignment. To receive credit, you must turn your paper in by 4:00pm on Wednesday, February 2nd.

1. (6 points) Consider the polar functions given by $r = 2 \sin(\theta) + 2$ and $r = 1$. Set up an integral representing the area inside both of these polar curves. Then evaluate the integral to find the actual area of the region.