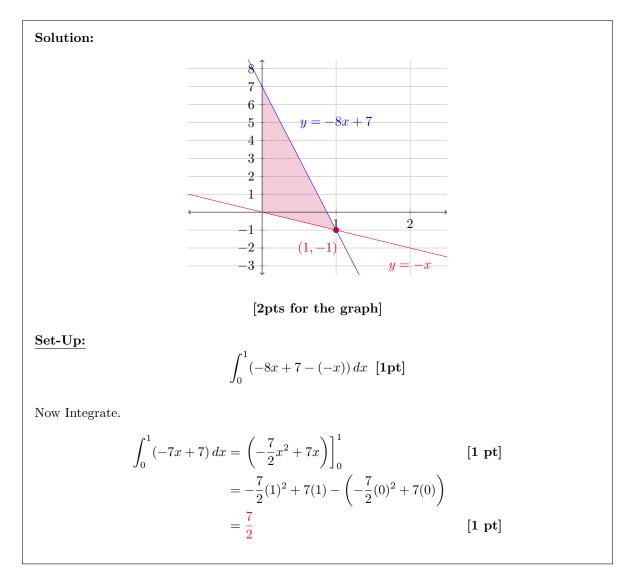
Please show **all** your work! Answers without supporting work will not be given credit. Write answers in spaces provided.

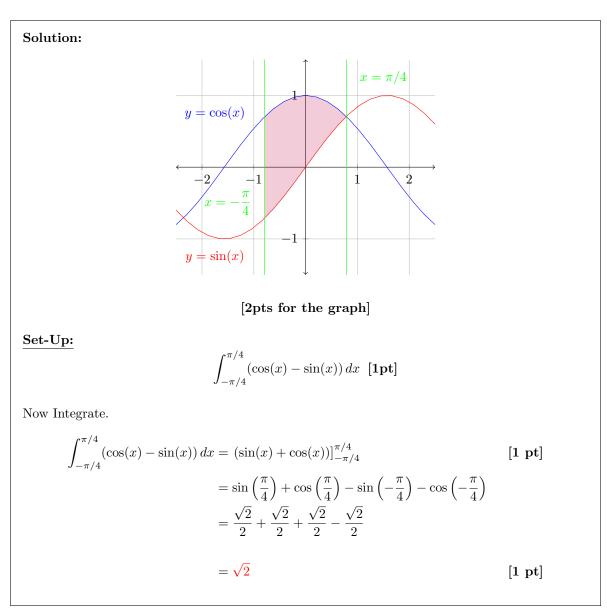
Name:_

1. [5 pts] Compute the area of the triangular region bounded by the y-axis and the lines y = -x and y = -8x + 7. (EXACT VALUE ONLY!

(You must draw a graph with the lines corresponding to the problem for 2 pts.)



2. [5 pts] Find the area of the region bounded by $y = \sin(x)$, $y = \cos(x)$, $x = -\pi/4$ and $x = \pi/4$. (EXACT VALUE ONLY!)



(You must draw a graph with the lines corresponding to the problem for 2 pts.)