Name: $\qquad$

1. [ $\mathbf{5} \mathbf{~ p t s ] ~ S e t ~ u p ~ t h e ~ i n t e g r a l ~ t h a t ~ c o m p u t e s ~ t h e ~ a r e a ~ s h o w n ~ b e l o w ~ w i t h ~ r e s p e c t ~ t o ~} x$.

## DON’T COMPUTE IT!!!



$$
\text { Area }=
$$

$\qquad$
2. [5 pts] Set up the integral that computes the area of the region bounded by

$$
y=\sin (x), \quad y=\cos (x), \quad x=-\pi / 4 \quad \text { and } \quad x=\pi / 4
$$

with respect to $x$.

$$
\text { Area }=
$$

$\qquad$

