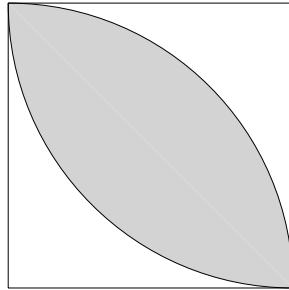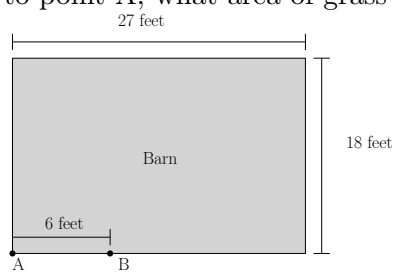MATH 191 FUNDAMENTALS OF MATHEMATICS II
12.6: PROBLEMS INVOLVING THE AREA OF CIRCLES
FEBRUARY 24, 2014

1. Find the area of the shaded area below. It is formed from the intersection of two quarter circles with radius 1 unit.

2. A farmer is going to tie his goat up outside of his barn. The leash is 15 feet long.

(a) If the end of the leash is tied to point A, what area of grass can the goat reach?

27 feet

Barn

18 feet

6 feet

A   B

(b) If the end of the leash is tied to point B, what area of grass can the goat reach?

27 feet

Barn

18 feet

6 feet

A   B