

# Math 111 - Trigonometry

## Homework Section 1.3 - Due 17th May

**Give your answers exactly.** (This means no approximations, no decimals, but square roots and fractions are okay.)

**You should attempt this homework without a calculator.**

1. #6 on page 27.
2. #32 on page 27.
3. (a) #48 on page 28.  
(b) In the above question, why do we need to restrict  $x \leq 0$  for the line to define  $\theta$ ?  
(Hint: Remember to choose a “nice” point to compute with!)
4. Compute *all* angles where  $\cos(\theta) = 0$ .  
Explain how your answer is related to the domain of  $\tan(\theta)$ .  
(Hint: Quotient identity.)