

Homework Section 2.2 - Due 17:00 Friday 16th Sep.

Give your answers exactly.

This homework does not require a calculator.

1. If α is the reference angle of an angle θ , what is the reference angle of α ?
2. #34 on page 64.
3. #44 on page 64.
4. #54 on page 65.
5. Read example 6 on page 63.
6. Recall that $|\sin(\theta)| = \sin(\theta')$.
If $\theta \in [0^\circ, 360^\circ)$ and $\sin(\theta) = -\frac{\sqrt{3}}{2}$:
 - (a) Observe the sign of $\sin(\theta)$. Which quadrants can θ lie in? (there are two quadrants)
 - (b) What is $\sin(\theta')$?
 - (c) We know that θ' is a positive acute angle, what is the value of θ' ?
 - (d) Hence compute the possible values of θ .
7. #80 on page 66.

There are envelopes outside my office for you to drop off this homework by Friday, make sure you put it in the correct section!