

Homework Section 1.4 - Due 12th Sep

Give your answers exactly, that is, no approximations, no decimals, but square roots and fractions are okay.

If the question says use identities, you must use identities.

1. #26 on page 37.
2. #36 on page 37.
3. #62 on page 38.
4. #70 on page 38.
5. #88 on page 39.
6. Suppose $\theta \in [0^\circ, 360^\circ)$, that is, θ is any angle between 0° and 360° but *not* 360° (hence the round bracket). For what value(s) of θ are the following functions not defined?
 - (a) $\sec \theta$.
 - (b) $\tan(2\theta)$.
- *7 Suppose θ is a positive angle with $\theta < 90^\circ$. What are the possible signs of:
 - (a) $\cos(2\theta)$?
 - (b) $\sin(2\theta)$?

Note that 0 is not a positive number.

*Optional questions, not to be handed in.