Lecture 8 - Homework

Question 1. Homework sheet Q3, Q6, Q8.

Question 2. Homework sheet Q9a), Q10a).

Question 3. Homework sheet Q11, Q12, Q13, Q14, Q16.

Question 4. Determine the value of the following,

(a) $\cos 60° \sin 30° + \tan 30° \csc 60°$

(b) $(\cos 45°)^2 + (\sin 45°)^2$

(c) $\cos 30° \sec 30° + \tan 30° \sin 60°$

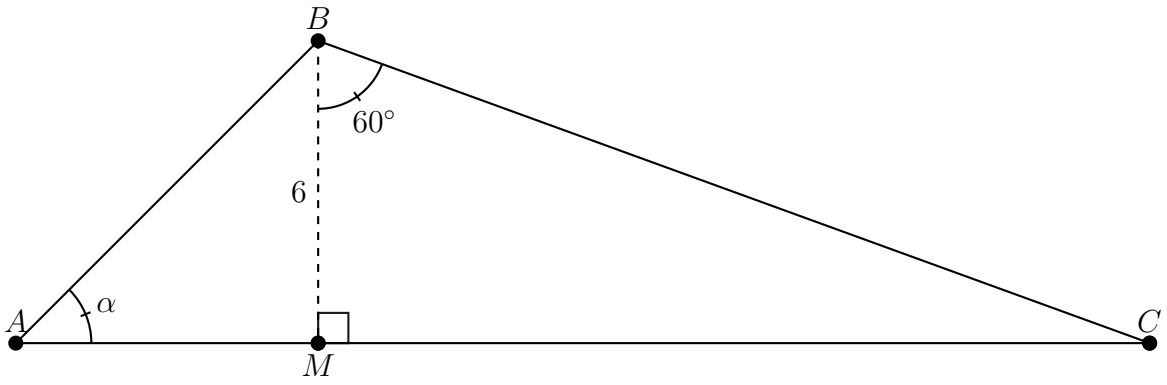
(d) $\sec 30° \csc 60° + 2(\cot 30°)^2$.

Question 5. Homework sheet Q31, Q33, Q36.
Note: When they say solve the triangle, they mean determine **all** unknown angles and sides.
Note: $\pi/6 = 30°$.

Question 6. Homework sheet Q41, Q42, Q44.

Question 7. (The following problem is from the updated Nelson Functions 11).

(a) $\triangle ABC$, $BM = 6$, $\angle MBC = 60°$ and $\tan\alpha = 1$. Determine the **exact** area of $\triangle ABC$.



(b) $\triangle SPQ$, $SP = 13$, $\angle PQS = 45°$ and $\cos\beta = \sqrt{3}/2$. Determine the **exact** area of $\triangle SPQ$.