

Homework X
Read pages 270 – 330.

Due Thursday, March 12, 2010 in section

1. What two words in mathematics are credited to Mohammed ibn Musa al-Khowarizmi: one to his name and one to a word in the title of a book that he wrote? (See pages 240 and 241.)
2. Page 266 #1abcd.
3. Note Thabit's rule bottom of page 246. Do page 266 #5.
4. Page 266 #7ab.

Look at Page 266 #8 and then read some of his poetry.

5. Page 266 #9.
6. What common symbol did Robert Recorde contribute to mathematics? See and read the figure on page 318; in particular, read the four lines before the equations.
7. What great enterprise was engaged in by Gerard of Cremona (1114 – 1187). Adelard of Bath (1090 – 1150), John of Seville (fl. 1133 - 42), Robert of Chester (fl. 1141 - 50), Hermann the Dalmation (fl. 1138 - 43), Plato of Tivoli (fl. 1182 - 46) and others?
8. In 1482 a mathematics book was printed; it was the first mathematics book of importance to be printed. What was the book? (See page 278.)
9. What two words in mathematics are credited to Mohammed ibn Musa al-Khowarizmi: one to his name and a word of the title of a book that he wrote? (See pages 240 and 241.)
10. Page 288 #8. (If complex numbers were allowed, the identity would be that, for $z = a + ib$ and $w = c + id$, $|z|^2 \times |w|^2 = |z \times w|^2$.)
11. Page 288 #11. Note that the Cairo papyrus is discussed on pages 78 through 80. It was written at approximately 300 BC at about the time and location as Euclid's Elements.

A map of the Mediterranean Sea and the Western Asia was included in the hard copy.