Law of Cosines - Guided Lesson

Complete the following problems:

1) In a rhombus whose side measures 12 and the smaller angle is 120°; find the length of the larger diagonal, to the nearest tenth.

2) In ΔXYZ, side x = 7, side z = 18 and m<Y = 30º. Find side 'q' to the nearest integer.

3) In a rhombus whose side measures 9 and the smaller angle is 42°; find the length of the larger diagonal, to the nearest tenth.