Name _____ Date _____

Law of Cosines - Independent Practice Worksheet

Complete all the problems.

1. In a rhombus whose side measures 14 and the smaller angle is 80°; find the length of the larger diagonal, to the nearest tenth.

2. In ΔPQR, side p = 12, side r = 6 and m<Q = 92º. Find side 'q' to the nearest integer.

3. In a rhombus whose side measures 24 and the smaller angle is 47°; find the length of the larger diagonal, to the nearest tenth.

4. In ΔEFG, side e = 9, side g = 18 and m<F = 45º. Find side 'f' to the nearest integer.

5. In a rhombus whose side measures 6 and the smaller angle is 145°; find the length of the larger diagonal, to the nearest tenth.

6. In ΔABC, side a = 3, side b = 15 and m<C = 108º. Find side 'c' to the nearest integer.

7. In a rhombus whose side measures 4 and the smaller angle is 64°; find the length of the larger diagonal, to the nearest tenth.

8. In ΔXYZ, side y = 21, side z = 4 and m<X = 80º. Find side 'x' to the nearest integer.

9. In a rhombus whose side measures 10 and the smaller angle is 72°; find the length of the larger diagonal, to the nearest tenth.

10. In ΔFTP, side t = 5, side p = 7 and m<F = 175º. Find side 'f' to the nearest integer.