Name _____ Date _____

Area of Triangle Using Trigonometry - Independent Practice Worksheet

Complete all the problems.

1. In ΔABC, AB = 19, AC = 24, and m<A = 65°. Find the area of ΔABC, to the nearest tenth of a square unit.

2. In an isoscelesΔ, the two equal sides each measure 8 meters, and they include an angle of 27°. Find the area of the isosceles triangle, to the nearest square meter.

3. In ΔPQR, PQ = 12, PR = 3, and m<P = 78°. Find the area of ΔPQR, to the nearest tenth of a square unit.

4. In ΔXYZ, XY = 13, XZ = 8, and m<X = 34°. Find the area of ΔXYZ, to the nearest tenth of a square unit.

5. In an isoscelesΔ, the two equal sides each measure 14 meters, and they include an angle of 44°. Find the area of the isosceles triangle, to the nearest square meter.

6. In an isoscelesΔ, the two equal sides each measure 4 meters, and they include an angle of 40°. Find the area of the isosceles triangle, to the nearest square meter.

7. In ΔEFG, EF = 5, EG = 8, and m<E = 22°. Find the area of ΔEFG, to the nearest tenth of a square unit.

8. In ΔLMN, LM = 10, LN = 5, and m<L = 54°. Find the area of ΔLMN, to the nearest tenth of a square unit.

9. In ΔABC, AB = 21, AC = 16, and m<A = 67°. Find the area of ΔABC, to the nearest tenth of a square unit.

10. In an isoscelesΔ, the two equal sides each measure 26 meters, and they include an angle of 31°. Find the area of the isosceles triangle, to the nearest square meter.