Name _____   Date _____

Area of Triangle Using Trigonometry - Matching Worksheet

Write the letter of the answer that matches the problem.

_____ 1. In ΔPQR, PQ = 12, PR = 13, and m<P = 46°. Find   144.3
the area of ΔABC, to the nearest tenth of a square unit.   a.

_____ 2. In an isoscelesΔ, the two equal sides each measure   102.6
18 meters, and they include an angle of 63°. Find the   b.
area of the isosceles triangle, to the nearest square
meter.

_____ 3. In ΔABC, AB = 25, AC = 10, and m<A = 39°. Find   78.7
the area of ΔABC, to the nearest tenth of a square unit.   c.

_____ 4. In an isoscelesΔ, the two equal sides each measure 8   8.7
meters, and they include an angle of 97°. Find the area   d.
of the isosceles triangle, to the nearest square meter.

_____ 5. In ΔXYZ, XY = 12, XZ = 23, and m<X = 48°. Find   56.1
the area of ΔXYZ, to the nearest tenth of a square unit.   e.

_____ 6. In an isoscelesΔ, the two equal sides each measure 6   65.5
meters, and they include an angle of 29°. Find the area   f.
of the isosceles triangle, to the nearest square meter.

_____ 7. In ΔEFG, EF = 20, EG = 8, and m<E = 55°. Find the   31.8
area of ΔABC, to the nearest tenth of a square unit.   g.