Name _____ Date _____

Quiz: Area of Triangle Using Trigonometry

1 In ΔABC, AB = 14, AC = 13, and m<A = 42°. Find the area of ΔABC, to the nearest tenth of a square unit.

2 In an isosceles Δ, the two equal sides each measure 36 meters, and they include an angle of 44°. Find the area of the isosceles triangle, to the nearest sq. meter.

3 In ΔABC, AB = 16 meters and AC = 14 meters. If the area of the triangle is 48 sq. meters, find the measure of <A to the nearest degree.

4 In a rhombus, each side is 10, and one angle is 136°. Find the area of the rhombus, to the nearest square unit.

5 In ΔABC, AB = 15, AC = 17, and m<A = 32°. Find the area of ΔABC, to the nearest tenth of a square unit.

6 In an isosceles Δ, the two equal sides each measure 46 meters, and they include an angle of 48°. Find the area of the isosceles triangle, to the nearest sq. meter.

7 In ΔABC, AB = 32 meters and AC = 12 meters. If the area of the triangle is 88 sq. meters, find the measure of <A to the nearest degree.

8 In a rhombus, each side is 15, and one angle is 128°. Find the area of the rhombus, to the nearest square unit.

9 In ΔABC, AB = 12, AC = 8, and m<A = 46°. Find the area of ΔABC, to the nearest tenth of a square unit.

10 In an isosceles Δ, the two equal sides each measure 42 meters, and they include an angle of 26°. Find the area of the isosceles triangle, to the nearest sq. meter.

Circle # Correct	0	1	2	3	4	5	6	7	8	9	10
Percentage Score	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

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