Name: _____ Date _____

Topic: *Area of Triangle Using Trigonometry - Worksheet 1*

1. In ΔXYZ, XY = 18, XZ = 12, and m<X = 80°. Find the area of ΔXYZ, to the nearest tenth of a square unit.

2. In an isosceles Δ, the two equal sides each measure 20 meters, and they include an angle of 35°. Find the area of the isosceles triangle, to the nearest sq. meter.

3. In ΔPQR, PQ = 9 meters and PR = 12 meters. If the area of the triangle is 32 sq. meters, find the measure of <P to the nearest degree.

4. In a rhombus, each side is 15, and one angle is 92°. Find the area of the rhombus, to the nearest square unit.

5. In ΔJKL, JK = 28, JL = 13, and m<J = 67°. Find the area of ΔJKL, to the nearest tenth of a square unit.

6. In an isosceles Δ, the two equal sides each measure 30 meters, and they include an angle of 80°. Find the area of the isosceles triangle, to the nearest sq. meter.

7. In ΔRST, RS = 36 meters and RT = 26 meters. If the area of the triangle is 90 sq. meters, find the measure of <R to the nearest degree.

8. In a rhombus, each side is 22, and one angle is 125°. Find the area of the rhombus, to the nearest square unit.

9. In ΔLMN, LM = 20, LN = 15, and m<L = 60°. Find the area of ΔLMN, to the nearest tenth of a square unit.

10. In an isosceles Δ, the two equal sides each measure 28 meters, and they include an angle of 40°. Find the area of the isosceles triangle, to the nearest sq. meter.

Name: _____ Date _____

Topic: *Area of Triangle Using Trigonometry - Worksheet 2*

1. In ΔXYZ, XY = 25, XZ = 32, and m<X = 70°. Find the area of ΔXYZ, to the nearest tenth of a square unit.

2. In an isosceles Δ, the two equal sides each measure 12 meters, and they include an angle of 40°. Find the area of the isosceles triangle, to the nearest sq. meter.

3. In ΔPQR, PQ = 7 meters and PR = 15 meters. If the area of the triangle is 28 sq. meters, find the measure of <P to the nearest degree.

4. In a rhombus, each side is 18, and one angle is 82°. Find the area of the rhombus, to the nearest square unit.

5. In ΔJKL, JK = 25, JL = 14, and m<J = 61°. Find the area of ΔJKL, to the nearest tenth of a square unit.

6. In an isosceles Δ, the two equal sides each measure 25 meters, and they include an angle of 70°. Find the area of the isosceles triangle, to the nearest sq. meter.

7. In ΔRST, RS = 45 meters and RT = 25 meters. If the area of the triangle is 85 sq. meters, find the measure of <R to the nearest degree.

8. In a rhombus, each side is 19, and one angle is 120°. Find the area of the rhombus, to the nearest square unit.

9. In ΔLMN, LM = 21, LN = 11, and m<L = 51°. Find the area of ΔLMN, to the nearest tenth of a square unit.

10. In an isosceles Δ, the two equal sides each measure 32 meters, and they include an angle of 50°. Find the area of the isosceles triangle, to the nearest sq. meter.

Name: _____ Date _____

Topic: *Area of Triangle Using Trigonometry - Worksheet 3*

1. In ΔXYZ, XY = 32, XZ = 17, and m<X = 60°. Find the area of ΔXYZ, to the nearest tenth of a square unit.

2. In an isosceles Δ, the two equal sides each measure 16 meters, and they include an angle of 39°. Find the area of the isosceles triangle, to the nearest sq. meter.

3. In ΔPQR, PQ = 7 meters and PR = 16 meters. If the area of the triangle is 28 sq. meters, find the measure of <P to the nearest degree.

4. In a rhombus, each side is 27, and one angle is 79°. Find the area of the rhombus, to the nearest square unit.

5. In ΔJKL, JK = 36, JL = 15, and m<J = 66°. Find the area of ΔJKL, to the nearest tenth of a square unit.

6. In an isosceles Δ, the two equal sides each measure 34 meters, and they include an angle of 78°. Find the area of the isosceles triangle, to the nearest sq. meter.

7. In ΔRST, RS = 47 meters and RT = 24 meters. If the area of the triangle is 95 sq. meters, find the measure of <R to the nearest degree.

8. In a rhombus, each side is 23, and one angle is 115°. Find the area of the rhombus, to the nearest square unit.

9. In ΔLMN, LM = 36, LN = 8, and m<L = 65°. Find the area of ΔLMN, to the nearest tenth of a square unit.

10. In an isosceles Δ, the two equal sides each measure 45 meters, and they include an angle of 64°. Find the area of the isosceles triangle, to the nearest sq. meter.

Name: _____ Date _____

Topic: *Area of Triangle Using Trigonometry - Worksheet 4*

1. In ΔXYZ, XY = 17, XZ = 26, and m<X = 87°. Find the area of ΔXYZ, to the nearest tenth of a square unit.

2. In an isosceles Δ, the two equal sides each measure 19 meters, and they include an angle of 53°. Find the area of the isosceles triangle, to the nearest sq. meter.

3. In ΔPQR, PQ = 12 meters and PR = 27 meters. If the area of the triangle is 84 sq. meters, find the measure of <P to the nearest degree.

4. In a rhombus, each side is 14, and one angle is 94°. Find the area of the rhombus, to the nearest square unit.

5. In ΔJKL, JK = 32, JL = 24, and m<J = 82°. Find the area of ΔJKL, to the nearest tenth of a square unit.

6. In an isosceles Δ, the two equal sides each measure 45 meters, and they include an angle of 125°. Find the area of the isosceles triangle, to the nearest sq. meter.

7. In ΔRST, RS = 87 meters and RT = 36 meters. If the area of the triangle is 95 sq. meters, find the measure of <R to the nearest degree.

8. In a rhombus, each side is 74, and one angle is 135°. Find the area of the rhombus, to the nearest square unit.

9. In ΔLMN, LM = 12, LN = 19, and m<L = 69°. Find the area of ΔLMN, to the nearest tenth of a square unit.

10. In an isosceles Δ, the two equal sides each measure 29 meters, and they include an angle of 78°. Find the area of the isosceles triangle, to the nearest sq. meter.

Name: _____ Date _____

Topic: *Area of Triangle Using Trigonometry - Worksheet 5*

1. In ΔXYZ, XY = 14, XZ = 33, and m<X = 88°. Find the area of ΔXYZ, to the nearest tenth of a square unit.

2. In an isosceles Δ, the two equal sides each measure 21 meters, and they include an angle of 59°. Find the area of the isosceles triangle, to the nearest sq. meter.

3. In ΔPQR, PQ = 22 meters and PR = 31 meters. If the area of the triangle is 111 sq. meters, find the measure of <P to the nearest degree.

4. In a rhombus, each side is 25, and one angle is 105°. Find the area of the rhombus, to the nearest square unit.

5. In ΔJKL, JK = 54, JL = 63, and m<J = 142°. Find the area of ΔJKL, to the nearest tenth of a square unit.

6. In an isosceles Δ, the two equal sides each measure 71 meters, and they include an angle of 114°. Find the area of the isosceles triangle, to the nearest sq. meter.

7. In ΔRST, RS = 16 meters and RT = 18 meters. If the area of the triangle is 100 sq. meters, find the measure of <R to the nearest degree.

8. In a rhombus, each side is 48, and one angle is 97°. Find the area of the rhombus, to the nearest square unit.

9. In ΔLMN, LM = 13, LN = 21, and m<L = 78°. Find the area of ΔLMN, to the nearest tenth of a square unit.

10. In an isosceles Δ, the two equal sides each measure 36 meters, and they include an angle of 120°. Find the area of the isosceles triangle, to the nearest sq. meter.