Unit 6: Triangle Geometry Day 7

Math 9 Principles

6-5 I can determine the area of a triangle using the formula $A = \frac{1}{2}ab \sin C$.

Find the area for each triangle.



Solve each question. Round all answers to the nearest tenth.

10) Find the area of quadrilateral ABCD.

Hint: Divide it into 2 triangles.



11) Find the area of an equilateral triangle with side lengths of 10.

12) 3. Find the area of a parallelogram with sides of length 32 and 15 and one corner angle of 115°.

HINT: Sketch it and divide it into 2 triangles.

13) An isosceles triangle has a base length of 15. Its other two sides are 24 units long. Its base angles are 72°. Find the area.



C. Find the length of the indicated side in each pair of similar triangles.



E. Use the Pythagorean Theorem to calculate the length of the missing side. Round your answer to the nearest tenth.



22) Find the length of the legs of the right, isosceles triangles shown.



23) From point A, travel 6 km east, turn south and travel 4 km, and then turn east and travel 10 km to point B. Find the shortest distance between A and B.

24) From point A, travel 10 km south, turn east and travel 14 km, and then turn north and travel 3 km to point B. Find the shortest distance between A and B.