

Trigonometry

Name: _____

DLA 4

Class: _____

Due Date: _____

Score: _____

No Work \Leftrightarrow No Points

Use Pencil Only \Leftrightarrow Be Neat & Organized

-
1. (2 points) What do you know about the sum of two smaller angles in any right triangle? Full drawing required.

1. _____

2. (2 points) The two small angles of a right triangle are marked x° and $4x^\circ$. Find the measure of each angle. Full drawing required.

2. _____

3. (2 points) In any right triangle, what do you call the three sides and what is the known formula that shows a relationship among all three sides? Full drawing required.

3. _____

4. (3 points) The legs of a right triangle are marked 5cm and 12cm. Find its perimeter. Full drawing required.

4. _____

5. (3 points) One of legs of a right triangle are marked 7ft while its hypotenuse is 25ft. Find its area. Full drawing required.

5. _____

6. (3 points) The two small angles of a right triangle are marked x° and $(x - 10)^\circ$. Find the measure of each angle. Full drawing required.

6. _____

7. (3 points) The two small angles of a right triangle are marked $2x^\circ$ and $(3x + 10)^\circ$. Find the measure of each angle. Full drawing required.

7. _____

8. The legs of a right triangle are marked x cm and $(2x - 1)$ cm while its hypotenuse is $(x + 9)$ cm. Full drawing required.

(a) (3 points) Find all three sides.

(a) _____

(b) (4 points) Find its area and perimeter.

(b) _____