

Introduction to Trigonometry Worksheet

1. Copy the following figure onto your own paper:



2. Put your finger on the acute angle marked "A," and label it with an arc.

- a) Label the hypotenuse with the word "hypotenuse."
- b) Label the adjacent leg (the one you are touching) with the word "adjacent leg."
- c) Label the opposite leg (the one you are not touching) with the word "opposite leg."

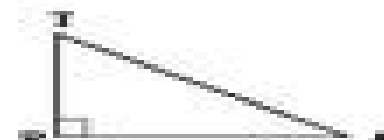
3. Copy the following figure onto your own paper:



4. Put your finger on the acute angle marked "C," and label it with an arc.

- a) Label the hypotenuse with the word "hypotenuse."
- b) Label the adjacent leg (the one you are touching) with the word "adjacent leg."
- c) Label the opposite leg (the one you are not touching) with the word "opposite leg."

5. Copy the following figure onto your own paper:



6. Answer the following questions about this triangle:

- a) Which side is the hypotenuse? $\overline{AT}$, $\overline{AC}$, or $\overline{TC}$?
- b) Which leg is adjacent to $\angle A$? $\overline{AT}$, $\overline{AC}$, or $\overline{TC}$?
- c) Which leg is opposite to $\angle A$? $\overline{AT}$, $\overline{AC}$, or $\overline{TC}$?
- d) What geometric tool should you use to measure angle A?
- e) What is the approximate measure of $\angle A$? (Check back at question 10.)

7. In which situation would trigonometry be most useful? Explain your choice (why?).

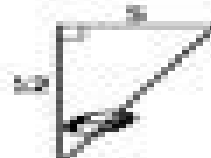
- a) You are trying to figure out the height of a big fall.
- b) You want to know the height of a tall tree.
- c) You want to know how much your car weighs.

8. Determine the size, nature, and tangent of the angle marked "A" in each figure below. Your answers will generally be fractions. Note that in some problems, you may need to use the Pythagorean Theorem first.

a)



b)



c)



9. Use your trigonometric ratios that you learned each of the following:

- a) $\sin(23^\circ)$
- b) $\cos(35^\circ)$
- c) $\tan(53.3^\circ)$
- d) What angle most nearly fits this description: $\sin(\angle A) \approx 0.39$?
- e) What angle most nearly fits this description: $\cos(\angle B) \approx 0.54$?

10. Solve for the unknowns. You must show all work to receive credit. Use proper units, and round answers to the nearest hundredths.

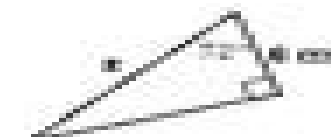
a)



b)



c)



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Claudia Zaslavsky



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