

MATH 222 WORKSHEET 1

Show all work for full credit.

1. A teacher asks his/her students to play the "What am I?" game with the properties of geometric figures, saying, "I have four sides and all of my interior angles are right angles. What am I?" To answer this question, a student must be at what van Hiele level? Explain.

2. Consider a correctly set clock that starts ticking at noon and answer the following questions.

a. What angle do the hands make at 7 o' clock?

b. What angle do the hands make at 2:36PM?

c. What angle do the hands make at 5:06PM?

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3. Convert 12.56° to degrees, minutes, and seconds.

4. Convert $24^\circ 21' 18''$ to degrees.

5. Perform the following operation. Leave your answer in simplest form.

$$\begin{array}{r} 37^\circ 44' 24'' \\ +21^\circ 35' 47'' \\ \hline \end{array}$$

6. Perform the following operation. Leave your answer in simplest form.

$$\begin{array}{r} 52^\circ 17' 34'' \\ -37^\circ 22' 41'' \\ \hline \end{array}$$