Math 206 - Quiz 8

Name __key__
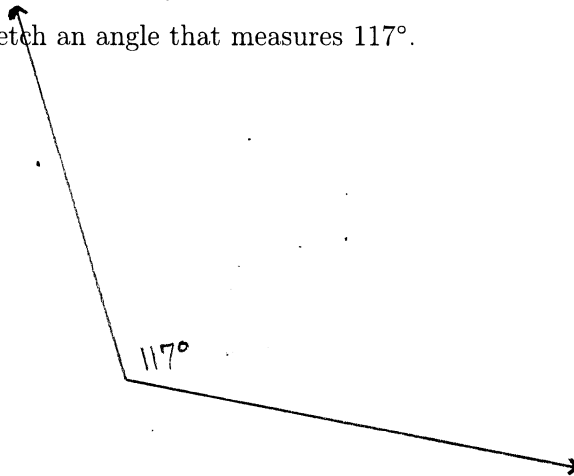
April 11, 2018

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (1 point) Use a protractor to sketch an angle that measures 117°.

$117°$

2. (1 point) $\angle ABC$ and $\angle CBD$ are adjacent angles with measures 18°35′29″ and 22°55′41″, respectively. Find the measure of $\angle ABD$. Write your answer in degrees/minutes/seconds.

$$18° \ 35' \ 29''$$
$$+ \ 22° \ 55' \ 41''$$
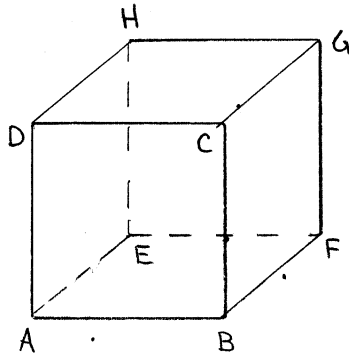$$\overline{40° \ 90' \ 70''} \ = \ 40° \ 91' \ 10''$$
$$= \boxed{41° \ 31' \ 10''}$$

3. (1 point) Convert 15.13° to degrees/minutes/seconds.

$$0.13° = 0.13(60') = \underline{\underline{7.8}}'$$

$$0.8' = 0.8(60'') = \underline{\underline{48}}''$$

$$\boxed{15° \ 7' \ 48''}$$

4. (2 points) Sketch a 3-dimensional rectangular prism (box) in such a way that the non-visible edges are dashed. Label the 8 vertices.

(a) Name a pair of parallel lines that do not lie in the plane of any one of the faces.

$$\overleftrightarrow{HE} \parallel \overleftrightarrow{CB}$$

(b) Name a pair of skew lines.

$$\overleftrightarrow{DH} \quad \text{AND} \quad \overleftrightarrow{CB} \quad \text{ARE SKEW.}$$