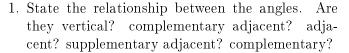
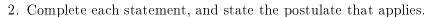
•B

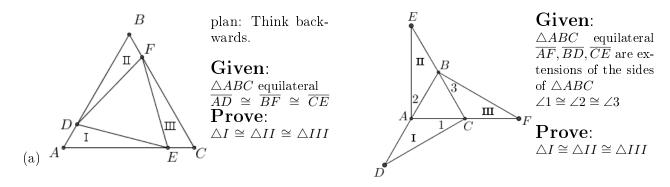
D

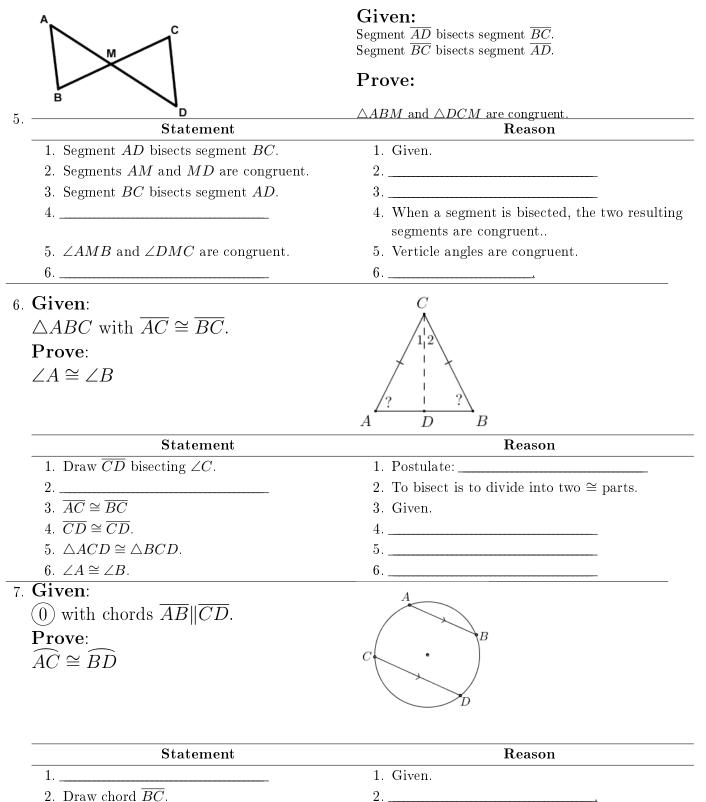


- (a)  $\angle 1$  and  $\angle 4$ \_\_\_\_\_
- (b)  $\angle 3$  and  $\angle 4$ \_\_\_\_\_
- (c)  $\angle 1$  and  $\angle 2$ \_\_\_\_\_
- (d)  $\angle 4$  and  $\angle 5$ \_\_\_\_\_
- (e)  $\angle 1$  and  $\angle 3$ \_\_\_\_\_
- (f)  $\angle COB$  and  $\angle 5$ \_\_\_\_\_



- (a) If Jack and Jill earn the same amount of money each hour and their rate of pay is increased by the same amount, then\_\_\_\_\_\_because\_\_\_\_\_
- (b) In the past year, those mandolins have tripled in value. If they had the same value last year, then\_\_\_\_\_\_by\_\_\_\_\_
- (c) A week ago, there were two classes that had the same enrollment. If the same number of students were dropped in each, then \_\_\_\_\_\_ by \_\_\_\_\_.
- (d) Since 100°C and 212°F are the boiling temperatures of water, then \_\_\_\_\_ by
- (f) Since he has \$2000 in Bank A, \$3000 in Bank B and \$5000 in Bank C, then\_\_\_\_\_\_ by\_\_\_\_\_\_
- (g) If three quarters and four nickels are compared with three quarters and two dimes then\_\_\_\_\_\_ by\_\_\_\_\_
- 3. Prove each of the following.
  - (a) Straight angles are congruent.
  - (b) Complements of congruent angles are congruent.
  - (c) Vertical angles are congruent.
- 4. In each part of the figure,  $\Delta I$ ,  $\Delta II$ , and  $\Delta III$  can be proved congruent. Make a diagram showing the congruent parts and state the reason for congruency.

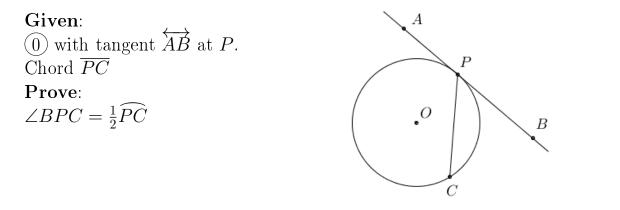




2. Draw chord  $\overline{BC}$ . 3.  $\angle ABC \cong \angle BCD$ 

4. \_\_\_\_\_

- 3. Trans.  $\overline{BC}$  cuts  $\overleftarrow{AB} \parallel \overline{CD}$ , alt. int.  $\angle$ s are  $\cong$ .
- 4. Arcs are  $\cong \Leftrightarrow$  corresponding chords are  $\cong$ .



Statement	Reason
1. Draw chord $\overline{CD}$ parallel to $\overrightarrow{AB}$ .	1
2	2. Parallel lines cut off $\cong$ arcs in a circle.
3. $\overline{DP} = \overline{CP}$	3. Arcs are $\cong \Leftrightarrow$ corresponding chords are $\cong$ .
4. $\angle PDC = \frac{1}{2}\widehat{PC}$	4
5. $\angle PDC \cong \angle PCD$ .	5
6	6. Trans. $\overline{PC}$ cuts $\overleftrightarrow{AB} \  \overline{DC}$ , alt. int. $\angle$ s are $\cong$
7. $\angle BPC = \frac{1}{2}\widehat{PC}$ .	7

QED