

Name : \_\_\_\_\_

## Supplementary Angles

Sheet 1

A) Find the supplement of each angle.

1)  $108^\circ$

Supplement of  $108^\circ =$  \_\_\_\_\_

2)  $36^\circ$

Supplement of  $36^\circ =$  \_\_\_\_\_

3)  $5^\circ$

Supplement of  $5^\circ =$  \_\_\_\_\_

4)  $161^\circ$

Supplement of  $161^\circ =$  \_\_\_\_\_

5)  $90^\circ$

Supplement of  $90^\circ =$  \_\_\_\_\_

6)  $57^\circ$

Supplement of  $57^\circ =$  \_\_\_\_\_

B) State whether the given pairs are supplementary or not.

1)  $24^\circ, 156^\circ$

\_\_\_\_\_

2)  $135^\circ, 102^\circ$

\_\_\_\_\_

3)  $99^\circ, 83^\circ$

\_\_\_\_\_

4)  $31^\circ, 149^\circ$

\_\_\_\_\_

5)  $112^\circ, 68^\circ$

\_\_\_\_\_

6)  $70^\circ, 100^\circ$

\_\_\_\_\_

C) 1) If  $\angle 2$  and  $\angle 3$  are supplementary angles, and  $m\angle 3 = 17^\circ$ ; find  $m\angle 2$ .

\_\_\_\_\_

2) If  $\angle 5$  and  $\angle 6$  are supplementary angles, and  $m\angle 5 = 124^\circ$ ; find  $m\angle 6$ .

\_\_\_\_\_

3) If  $\angle 8$  and  $\angle 9$  are supplementary angles, and  $m\angle 9 = 86^\circ$ ; find  $m\angle 8$ .

\_\_\_\_\_

Name : \_\_\_\_\_

**Supplementary Angles**

A) Find the supplement of each angle.

1)  $108^\circ$

Supplement of  $108^\circ = \underline{72^\circ}$

2)  $36^\circ$

Supplement of  $36^\circ = \underline{144^\circ}$

3)  $5^\circ$

Supplement of  $5^\circ = \underline{175^\circ}$

4)  $161^\circ$

Supplement of  $161^\circ = \underline{19^\circ}$

5)  $90^\circ$

Supplement of  $90^\circ = \underline{90^\circ}$

6)  $57^\circ$

Supplement of  $57^\circ = \underline{123^\circ}$

B) State whether the given pairs are supplementary or not.

1)  $24^\circ, 156^\circ$

supplementary

2)  $135^\circ, 102^\circ$

not supplementary

3)  $99^\circ, 83^\circ$

not supplementary

4)  $31^\circ, 149^\circ$

supplementary

5)  $112^\circ, 68^\circ$

supplementary

6)  $70^\circ, 100^\circ$

not supplementaryC) 1) If  $\angle 2$  and  $\angle 3$  are supplementary angles, and  $m\angle 3 = 17^\circ$ ; find  $m\angle 2$ . $163^\circ$ 2) If  $\angle 5$  and  $\angle 6$  are supplementary angles, and  $m\angle 5 = 124^\circ$ ; find  $m\angle 6$ . $56^\circ$ 3) If  $\angle 8$  and  $\angle 9$  are supplementary angles, and  $m\angle 9 = 86^\circ$ ; find  $m\angle 8$ . $94^\circ$