**Chapter 2:** Important Definitions, Postulates and Theorems (Fill in the blanks with the correct definition/postulate/theorem.

Do not add anything else to this worksheet. You may use this on

the Ch 2 Quiz/Test as long as there is nothing extra on this sheet.)

\_\_ : a = a

\_\_ : if a =b, then b = a

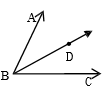
\_\_ : if a = b and b = c



\_\_ : If B is between A and C, then AB + BC = AC

 \_\_ : If M is the midpoint of *AB*, then AM = MB

\_\_ : If M is the midpoint of *AB*, then



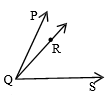
\_\_ : If AB = XY, then

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:** If *BD* bisects ABC, then ABD DBC

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:** If X and Y are supplementary, then mX + mY= 180

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:** If X and Y are complementary, then mX + mY= 90

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:** If K is a right angle, then m = 90



**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:** If P D, then mP = mD

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:** If R is in the interior of PQS, then mPQR + mRQS = mPQS

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:** If 1 and 2 form a linear pair, then they are supplementary

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:** If 1 and 2 are adjacent and together they form a right angle, then they are complementary

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:** If B and C are both supplementary to A, then B C

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:** If E and G are both complementary to D, then E G

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:** If 3 and 4 are vertical angles, then 3 4

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:** If two lines are perpendicular, then they form right angles.

**Theorem:** All right angles are congruent.

**Theorem:** Perpendicular lines form congruent adjacent angles.

**Theorem:** If 2 angles are congruent and supplementary, then they are both right angles.

**Theorem:** If two congruent angles form a linear pair, then they are both right angles