

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Row: \_\_\_\_\_ Period: \_\_\_\_\_

Assignment #: \_\_\_\_\_

### 10.1 WORKSHEET

1) Draw any  $\overline{AB}$ . Construct  $\overline{XY}$  so that  $AB = XY$ .

2-7: Given segments with lengths  $a$ ,  $b$ , and  $c$ , construct segments having the indicated lengths.



2)  $2b$

3)  $a + c$

4)  $a + b + c$

5)  $3b$

6)  $2c - b$

7)  $3a - b$

8) Draw  $\overline{CD}$ . Then construct an isosceles triangle with base  $CD$ .

9) Draw  $\overline{EF}$ . Then construct an equilateral triangle with sides of  $EF$ .

10-12: Given segments with lengths  $d$ ,  $e$ , and  $f$ , construct the following:



10) An isosceles triangle with base  $f$  and legs  $e$ .

11) An equilateral triangle with sides of length  $e$ .

12) An isosceles triangle with base  $e$  and legs  $d$ .

13) Draw any acute triangle. Bisect each of the three angles.

14) Using the construction from problem 11, construct a  $60^\circ$  angle.

15) Using the construction from problem 11, construct a  $30^\circ$  angle.