Geometry
Homework

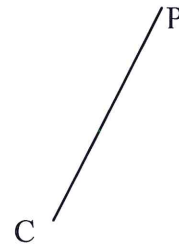## Bisecting Segments & Angles
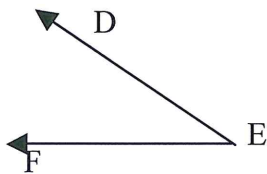## Do Work on Sheet

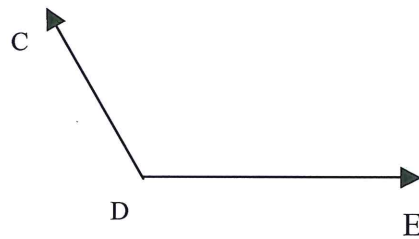1)   Bisect $\overline{AB}$.

A _____ B
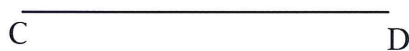
2) Bisect $\overline{CP}$

/P
/
/
/
C /

3)   Bisect <DEF

D
↖
←F   E
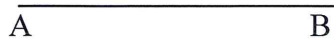
4) Bisect <CDE

C ↖

D   E

5)   Construct $\overline{AB}$ such that $AB = 2(CD)$

C _____ D

6)   Construct <ABC congruent to angle <MLN

M↖
|
|
L|_____→
      N
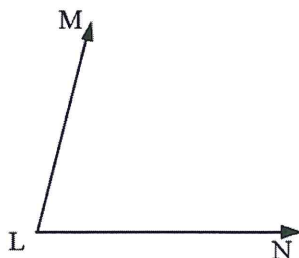
Continue with the work on the back ☞

7) Solve for x: $x^3 + 4x^2 = 21x$

8) Will a triangle with sides 4, 7, and 8 be a right triangle?

9) The length of a rectangle is represented by $x - 3$. If the width is 11 more than that, and the area is 60 meters, find the dimensions of the rectangle.

10) Solve for x: $\frac{2}{3}x - 37 = 41 - \frac{4}{7}x$

11) Sketch $y = x^2 - 7x + 3$ below.   Find:

a) maximum
b) x-intercepts
c) y-intercept
d) window that you used to graph