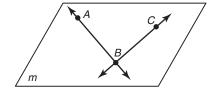
Homework: PreQuiz problems

1. In the figure, given that $\overline{AB} \cong \overline{BC}$, AB = x + 7, BC = 11. Solve for x, AB, and BC. Show each step.

Geometry (1 pt):

Substitute (1 pt):

Solve algebra:



$$x =$$
 (1 pt)

$$AB =$$
 (1 pt)

$$BC = (1 pt)$$

Check (1 pt):

2. Given two complementary angles, $\angle ABC$ and $\angle DEF$. If $m\angle DEF = 55^{\circ}$ then solve for the measure of $\angle ABC$. Show the steps.

Geometry (1 pt):

Substitute (1 pt):

Solve algebra (1 pt):

 $m\angle ABC =$

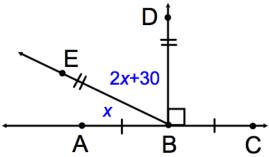
Check (1 pt):

3) Given the figure, $m \angle ABE = x$ and $m \angle DBE = 2x + 30$. Solve for x and the angle measures. Show each the step.

Geometry (1 pt):

Substitute (1 pt):

Solve algebra:



$$x = (1 \text{ pt})$$

$$m\angle ABE = (1 \text{ pt})$$

$$m\angle DBE = (1 \text{ pt})$$

Check (1 pt):

4) Given that JK = 5x, KL = x + 2, and JL = 20. Find the value of x, JK, and KL. Show steps.

Geometry (1 pt):

 $\begin{array}{c|c}
\hline
J & K & L
\end{array}$

Substitute (1 pt):

Solve algebra:

$$x = (1 \text{ pt})$$

$$JK =$$
 (1 pt)

$$KL =$$
 (1 pt)

Check (1 pt):