

Do Now: Geometry pre-quiz problems

For problems 1-7, select the best geometry statement from the right section that would set up an equation after variables are substituted. (some can be used multiple times)

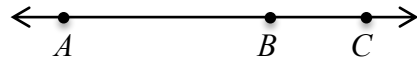
Geometry statements

- A) $AB = BC$
- B) $AB + BC = AC$
- C) $m\angle ABC + m\angle DEF = 90$
- D) $m\angle ABC + m\angle DEF = 180$
- E) $m\angle ABC = m\angle DEF$

1. Given that $\overline{AB} \cong \overline{BC}$

2. Given two supplementary angles, $\angle ABC$ and $\angle DEF$.

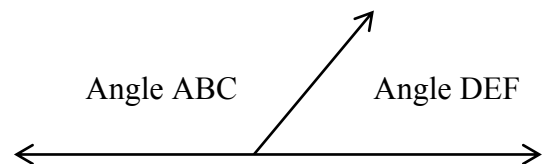
3) Given that $AB = 5x$, $BC = x + 2$, and $AC = 20$.



4) $\angle ABC$ and $\angle DEF$ are congruent angles.

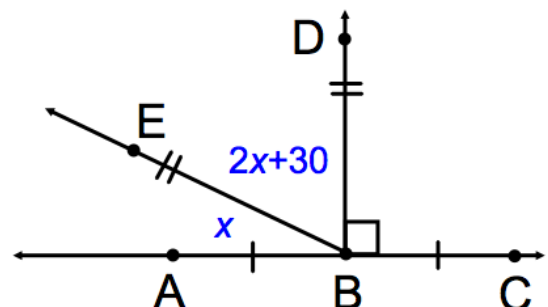
5) Point B bisects \overline{AC} .

6) Given the figure



7) Points A , B , and C are collinear and B bisects \overline{AC} .

8) Write a geometric statement, followed by an algebraic substitution, for the given diagram.



The following pairs do not mean the same thing. Explain what they mean and what the difference is. Use complete sentences.

9) \overline{AB} , AB

10) $\angle ABC \cong \angle DEF$, $m\angle ABC = m\angle DEF$