

1. Construct a segment congruent to EF using a compass and straightedge. Leave your construction work on the page!

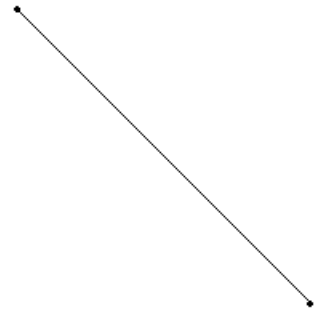


2. If two lines are perpendicular, then any two adjacent angles formed are _____.

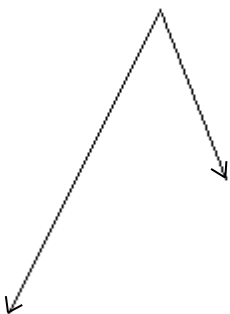
If a line segment is bisected, then the two segments formed are _____.

If an angle is bisected, then the two adjacent angles formed are _____.

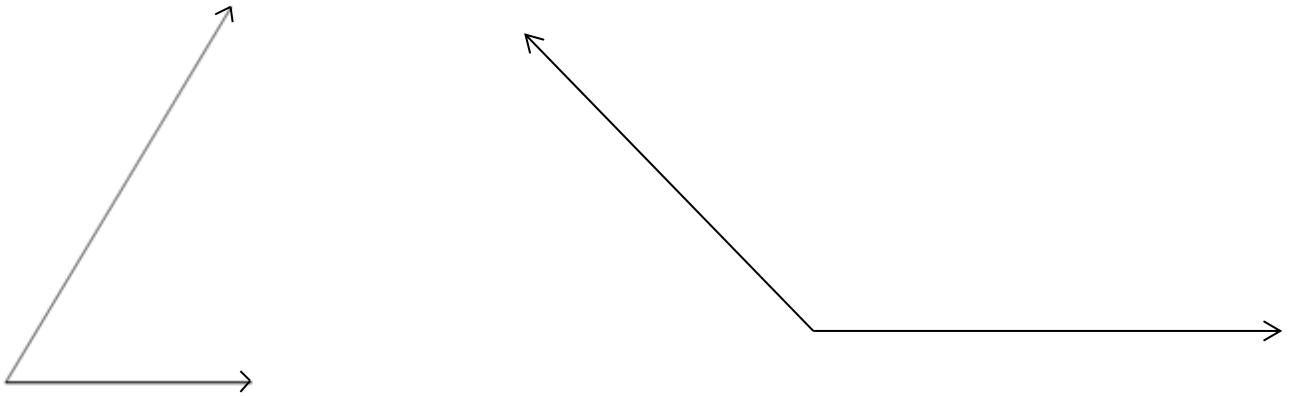
3. Construct the perpendicular bisector of both segments below.



4. Construct a copy of the angle below.



5. Bisect each angle below.



6. Fill in the following statements:

- a) If lines are parallel \rightarrow alternate interior angles are _____.
- b) If lines are parallel \rightarrow same-side exterior angles are _____.
- c) If lines are parallel \rightarrow corresponding angles are _____.
- d) If a quadrilateral is a parallelogram \rightarrow opposite sides are _____ and _____.
- e) If a quadrilateral is a parallelogram \rightarrow diagonals _____.
- f) If a quadrilateral is a parallelogram \rightarrow opposite angles are _____.
- g) The slopes of parallel lines are _____.
- h) The slopes of perpendicular lines are _____.
- i) CPCTC stands for _____.
- j) A transformation which slides a figure but keeps it the same size is called a _____.
- k) A transformation which flips a figure but keeps it the same size is called a _____.
- l) A transformation which changes the size of a figure is called a _____.
- m) A transformation which turns a figure but keeps it the same size is called a _____.
- n) Which transformations are rigid motions? _____
- o) What does collinear mean? _____
- p) What is true about an isosceles triangle? _____