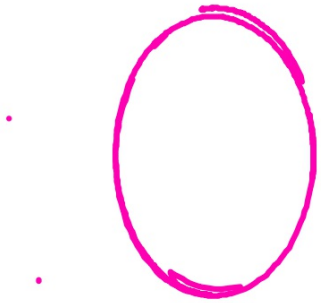
CHAPTER 10:
CONSTRUCTIONS & LOCI

SECTION 10.1:
WHAT CONSTRUCTION MEANS

Standards:

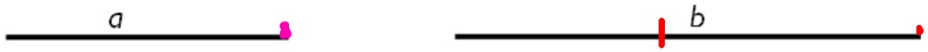


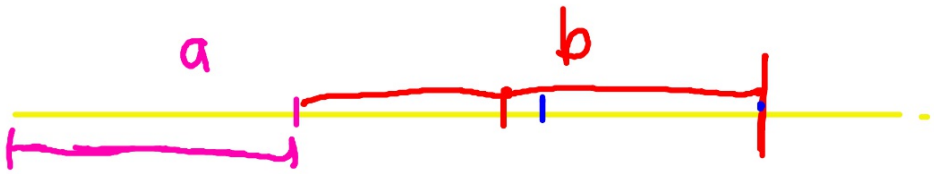
CONSTRUCTION 1

Given a segment, construct a segment congruent to the given segment.

EXAMPLE 1

Given segments with length of a and b, construct a segment having length of $b + a$.



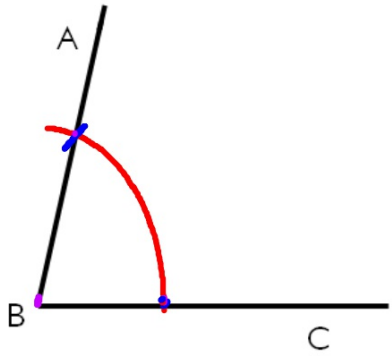


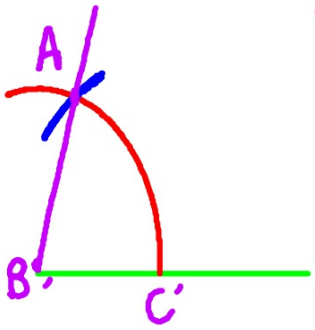
CONSTRUCTION 2

Given an angle, construct an angle congruent to the given angle.

EXAMPLE 2

Given $\angle ABC$, construct an angle congruent to $\angle ABC$.





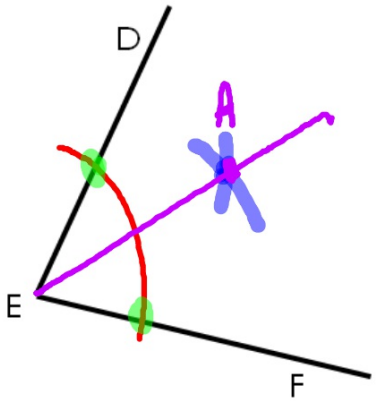
CONSTRUCTION 3

Given an angle, construct the bisector of the angle.

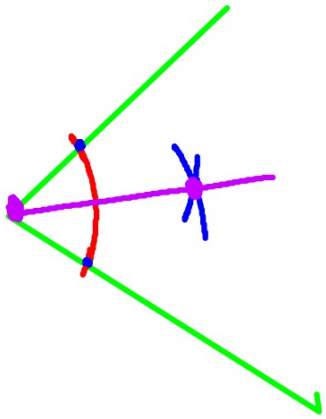
Do not erase construction marks

EXAMPLE 3

Bisect $\angle DEF$

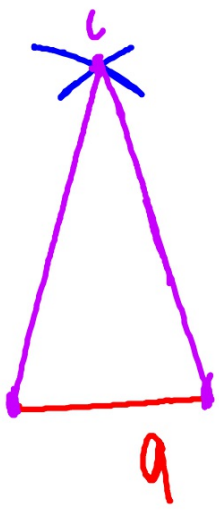


AE bisects ∠DEF



EXAMPLE 4

Construct an isosceles triangle with a base of length *a* and legs of length *b*.



EXAMPLE 5

Construct an equilateral Δ with side lengths a.