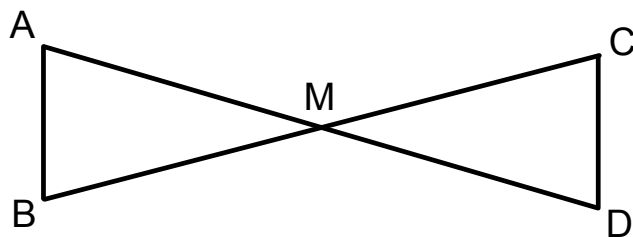


Warm-up 3/23/17

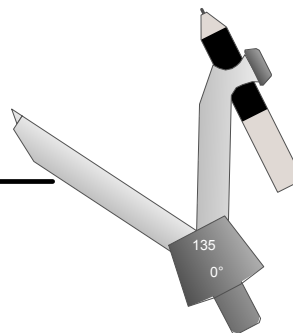
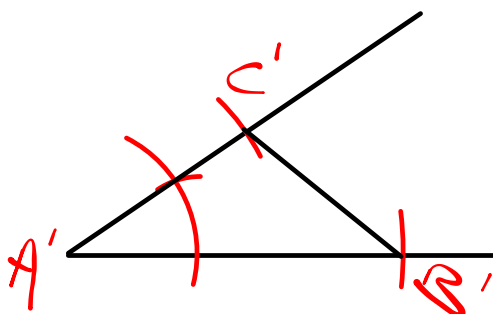
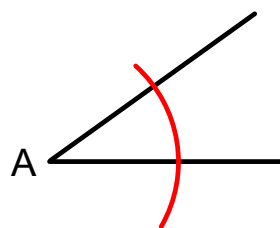
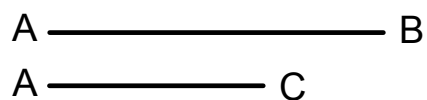
Suppose segments AB and CD are congruent, and that M is the midpoint of segments AD and BC.



Are there congruent triangles in the diagram? If so, give a congruence statement.

$$\triangle ABM \cong \triangle DCM$$

Pg. 760-761



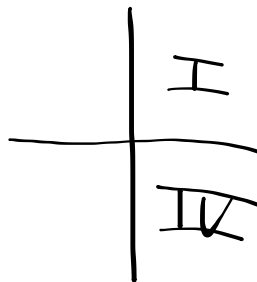
Pg. 762-763

1-3

$$\begin{aligned} AB &= \sqrt{(5-2)^2 + (9-3)^2} \\ &= \sqrt{9+36} \\ &= \sqrt{45} \end{aligned}$$

$$\begin{aligned} BC &= \sqrt{(7-2)^2 + (2-3)^2} \\ &= \sqrt{25+1} \\ &= \sqrt{26} \end{aligned}$$

$$\begin{aligned} AC &= \sqrt{(7-5)^2 + (2-9)^2} \\ &= \sqrt{4+49} \\ &= \sqrt{53} \end{aligned}$$



Pg. 764

7

Pg. 765-766

1

$$\angle R \cong \angle W$$

$$\angle RTS \cong \angle WR$$

$$\overline{TD} \cong \overline{DZ}$$

$$\angle TDM \cong \angle Z$$

Pg. 767

3

$$\overline{BC} \cong \overline{CD}$$

$$\overline{BA} \cong \overline{DA}$$

$$\overline{CA} \cong \overline{CA}$$

$$\triangle ABC \cong \triangle ADC$$

SSS

$$\overline{BA} \cong \overline{ED}$$

$$\angle A \cong \angle D$$

$$\overline{AC} \cong \overline{DF}$$

$$\triangle BCA \cong \triangle EFD$$

SAS