

Warm-up 3/21/17

Given:

$$\angle H \cong \angle Z$$

$$\overline{HM} \cong \overline{ZG}$$

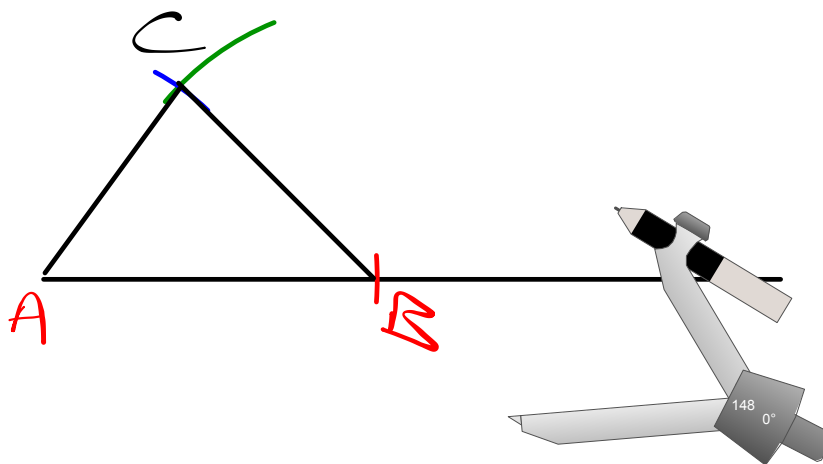
$$\angle Y \cong \angle D$$

Write a triangle congruency statement based on this information.

$$\triangle HMY \cong \triangle ZGD$$

Pg. 752-753

A _____ B
B _____ C
A _____ C



Pg. 754

3

$$A(8, -5) \quad B(4, -12) \quad C(12, -8)$$

$$\begin{aligned} AB &= \sqrt{(8-4)^2 + (-5-(-12))^2} \\ &= \sqrt{16+49} \\ &= \sqrt{65} \approx 8.1 \end{aligned}$$

$$\begin{aligned} AC &= \sqrt{(12-8)^2 + (-8-(-5))^2} \\ &= \sqrt{16+9} \\ &= \sqrt{25} = 5 \end{aligned}$$

$$\begin{aligned} BC &= \sqrt{(12-4)^2 + (-8-(-12))^2} \\ &= \sqrt{64+16} \\ &= \sqrt{80} \approx 8.9 \end{aligned}$$

Pg. 755

5

$$A'(8, 2) \quad B'(4, -5) \quad C'(12, -1)$$

$$A'B' = \sqrt{65}$$

$$B'C' = \sqrt{80}$$

$$A'C' = 5$$

Pg. 756

1-3

$$A''(8, 5) \quad B''(4, 12) \quad C''(12, 8)$$

$$A''B'' = \sqrt{65}$$

$$B''C'' = \sqrt{80}$$

$$A''C'' = 5$$

$$A(0, 2) \quad B(0, 8) \quad C(4, 2)$$