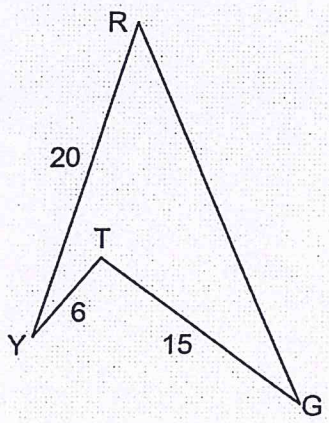
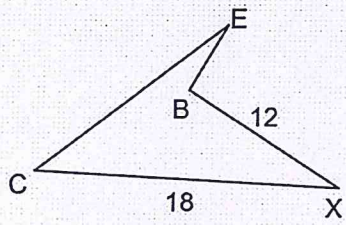
Bellwork Geometry Monday, March 2, 2020

1. Write a similarity statement and give a similarity ratio for these similar figures. Then find the lengths of $\overline{RG}$ and $\overline{CE}$.





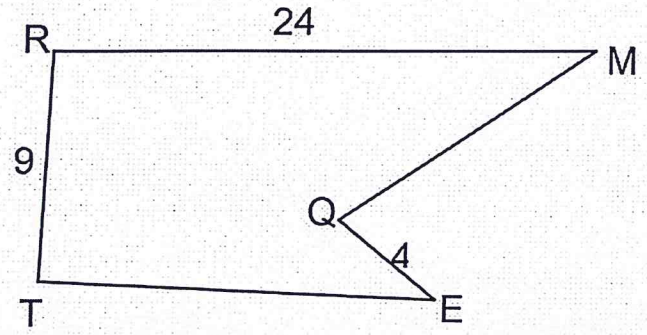
Similarity Statement:

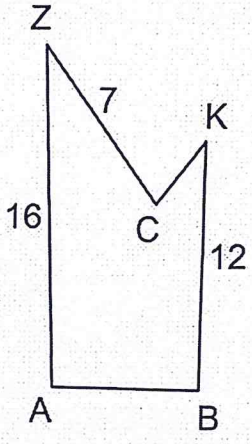
Similarity Ratio:

RG =

CE =

2. Given the figures are similar, find the lengths of $\overline{AB}$ and $\overline{QM}$.



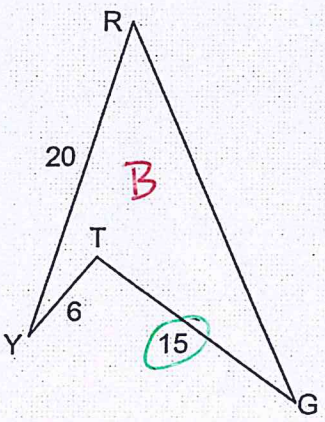


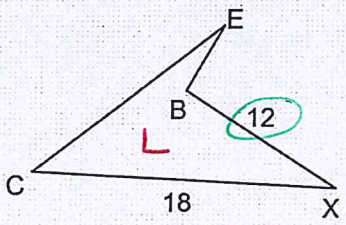
AB =

QM =

Bellwork Geometry Monday, March 2, 2020 Answers

1. Write a similarity statement and give a similarity ratio for these similar figures. Then find the lengths of $\overline{RG}$ and $\overline{CE}$.





Similarity Statement:

MANY ANSWERS ARE POSSIBLE. AN EXAMPLE IS GIVEN:

GTYR ~ XBEC

Similarity Ratio:

$\frac{B}{L} = \frac{15}{12}$ or $\frac{L}{B} = \frac{12}{15}$

RG =

$\frac{B}{L}$ $\frac{15}{12} = \frac{RG}{18}$

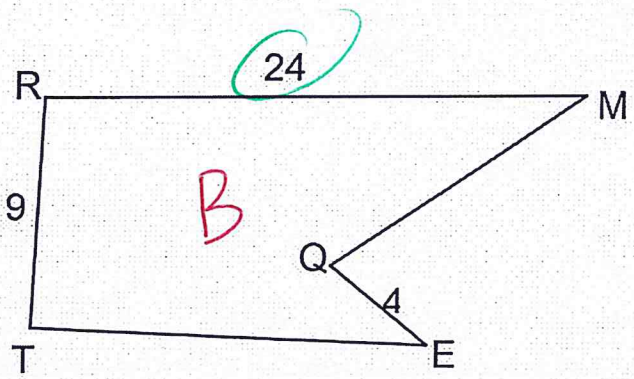
RG = 22.5

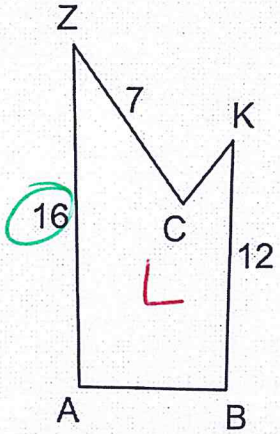
CE =

$\frac{B}{L}$ $\frac{15}{12} = \frac{20}{CE}$

CE = 16

2. Given the figures are similar, find the lengths of $\overline{AB}$ and $\overline{QM}$.





similarity ratios

$\frac{L}{B} = \frac{16}{24}$

AB = 6

$\frac{L}{B}$ $\frac{16}{24} = \frac{AB}{9}$

QM = 10.5

$\frac{L}{B}$ $\frac{16}{24} = \frac{7}{QM}$