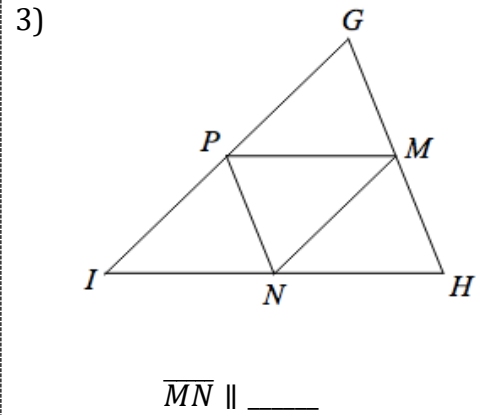
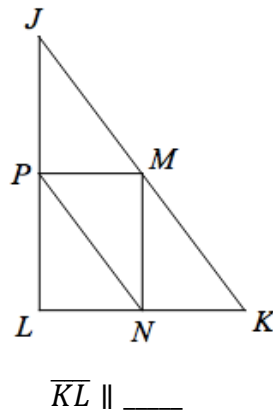
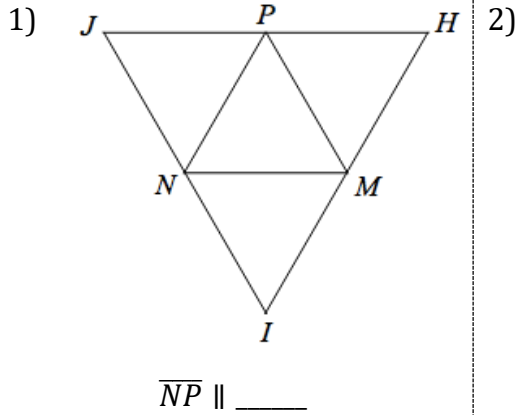


LEVEL: EMERGING

Directions: In each triangle, M, N, and P are midpoints of the sides. Name the line segment that is parallel to the one that is given.



4) The lengths of the midsegments of a triangle have lengths of 22, 26, and 30. Which of the following could be the length of a side of this triangle? Select all that apply.

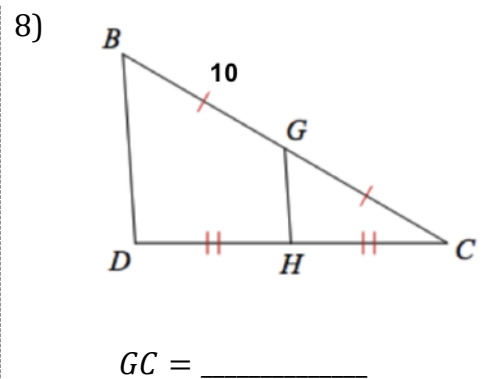
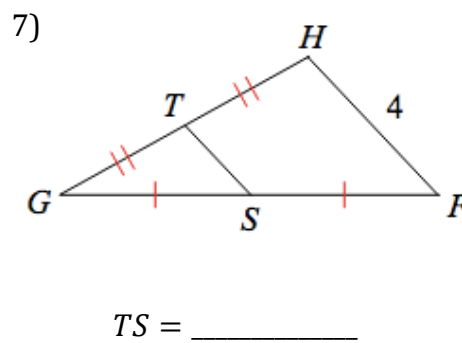
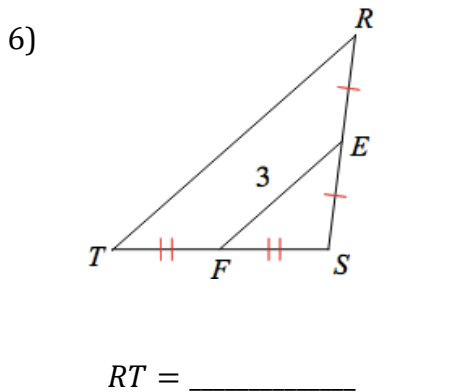
- (A) 11 (B) 15 (C) 44 (D) 50 (E) 60

5) The sides of a triangle have lengths of 56, 102, and 86. Which of the following could be the length of a midsegment of this triangle? Select all that apply.

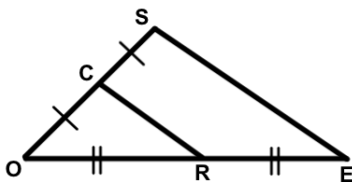
- (A) 38 (B) 43 (C) 48 (D) 51 (E) 57

LEVEL: PROFICIENT

Directions: Find the length of the indicated line segment.



9) Given: $\overline{OC} \cong \overline{CS}, \overline{OR} \cong \overline{RE}$
 Prove: \overline{CR} is a midsegment

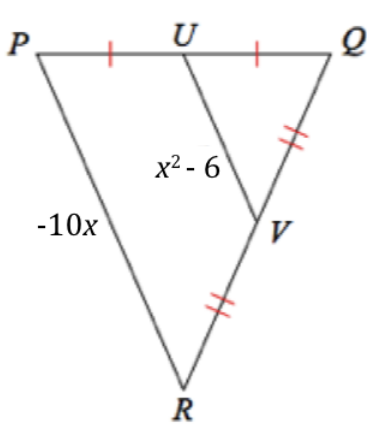


Statements	Reasons
(1)	(1)
(2)	(2)
(3)	(3)
(4)	(4)

LEVEL: MASTERY

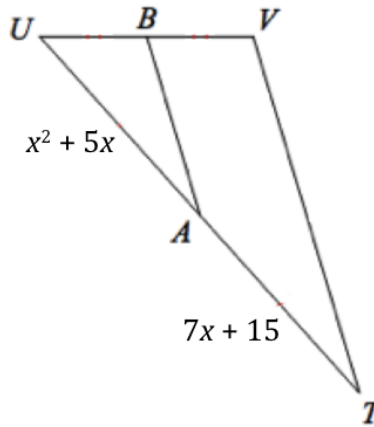
Directions: Find the value of x . Then find the length of the indicated segment.

10)



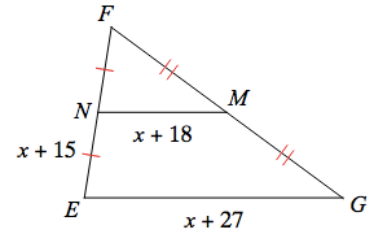
$x =$ _____
 $UV =$ _____

11) \overline{AB} is a midsegment



$x =$ _____
 $UA =$ _____ $AT =$ _____
 SUM of UA and $AT =$ _____

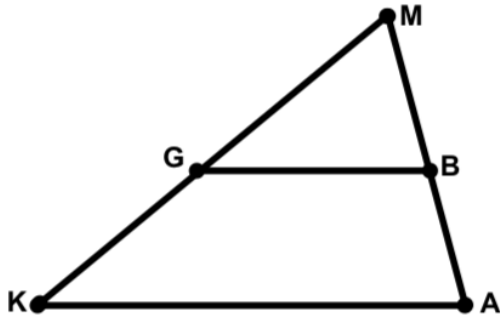
12)



$x =$ _____
 $NM =$ _____ $FN =$ _____
 SUM of NM and $FN =$ _____

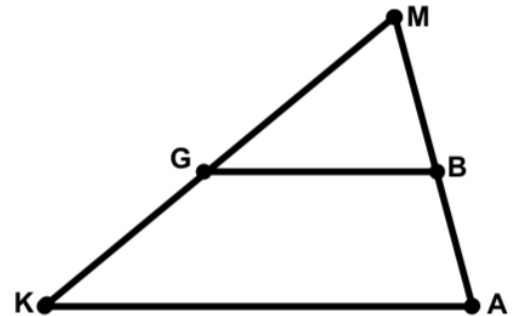
13) Complete the following proportions.

Given: B and G are midpoints of \overline{MA} and \overline{MK} ,
 $GB = 6$, $BA = 4$, $KG = 10$



- (A) $\frac{KA}{GB} =$ _____ (B) $\frac{BA}{MA} =$ _____
 (C) $\frac{MA}{MK} =$ _____ (D) $\frac{GB}{KA} =$ _____
 (E) $\frac{MG}{MK} =$ _____ (F) $\frac{KG}{GM} =$ _____

14) Select all of the statements that must be correct.



- (A) $\frac{KG}{GM} = \frac{AB}{BM}$
 (B) $\frac{KA}{GB} = \frac{AB}{BM}$
 (C) $\frac{MB}{MA} = \frac{GB}{KA}$
 (D) $\frac{MK}{MG} = \frac{MA}{MB}$
 (E) Cannot be determined