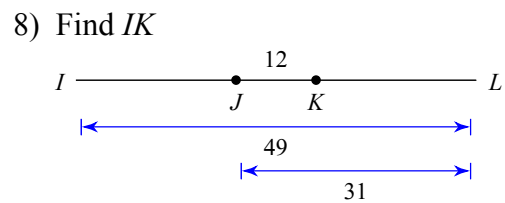
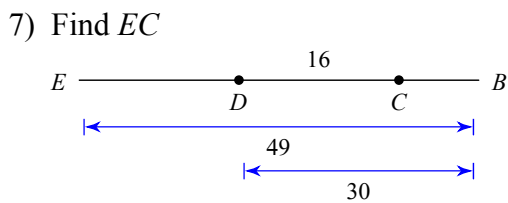
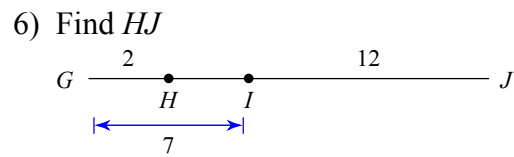
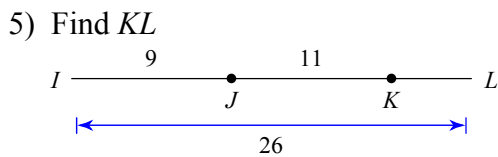
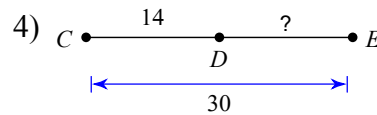
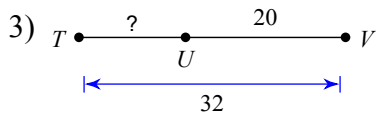
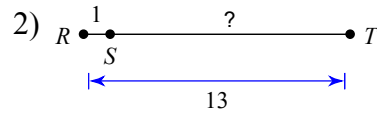
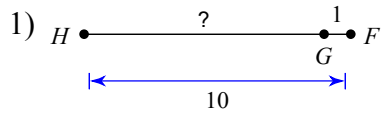


The Segment Addition Postulate

Find the length indicated.



Points A, B, and C are collinear. Point B is between A and C. Find the length indicated.

9) Find AC if $AB = 16$ and $BC = 12$.

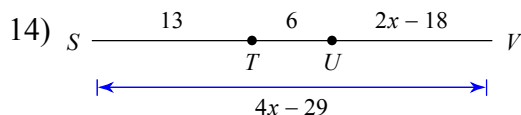
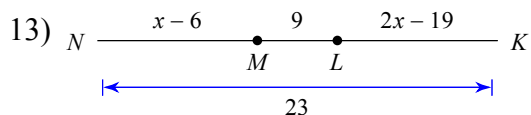
10) Find AC if $AB = 13$ and $BC = 9$.

Points A, B, and C are collinear. Point B is between A and C. Solve for x .

11) $AC = 3x + 3$, $AB = -1 + 2x$, and $BC = 11$.
Find x .

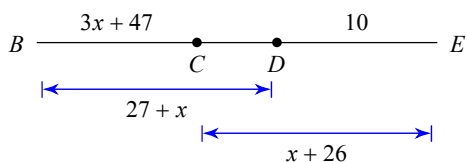
12) $AC = 22$, $BC = x + 14$, and $AB = x + 10$.
Find x .

Solve for x .

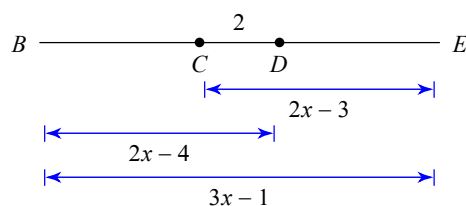


Find the length indicated.

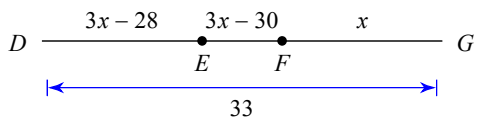
15) Find CE



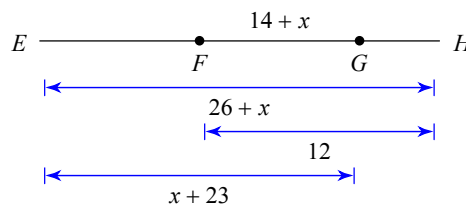
16) Find BD



17) Find DE



18) Find EG



Critical thinking questions:

19) Points A, B, C, D, and E are collinear and in that order. Find AC if $AE = x + 50$ and $CE = x + 32$.

20) Write a segment addition problem using three points (like question 11) that asks the student to solve for x but has a solution $x = 20$.