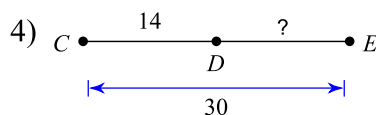
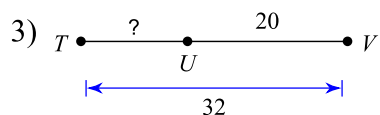
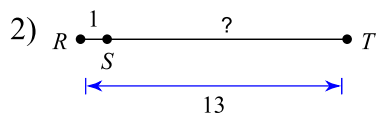
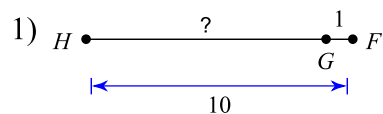
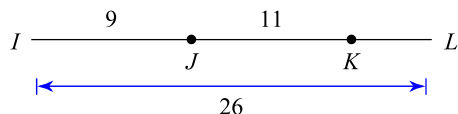
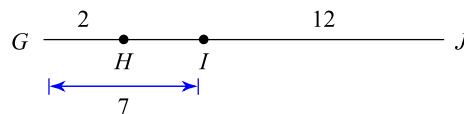
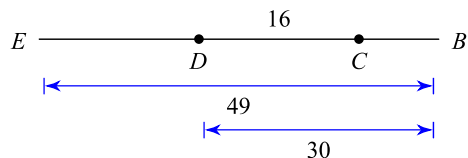
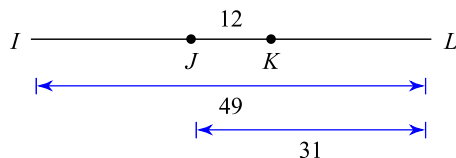


The Segment Addition Postulate

Date _____ Period _____

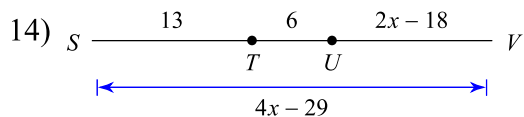
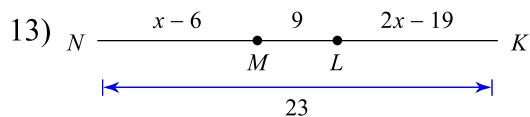
Find the length indicated.5) Find KL 6) Find HJ 7) Find EC 8) Find IK **Points A, B, and C are collinear. Point B is between A and C. Find the length indicated.**9) Find AC if $AB = 16$ and $BC = 12$.10) Find AC if $AB = 13$ and $BC = 9$.

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

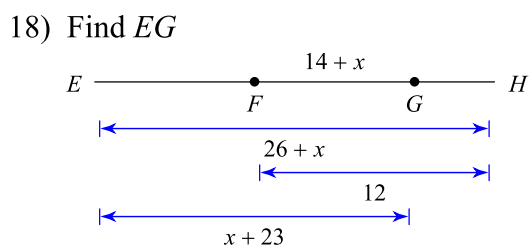
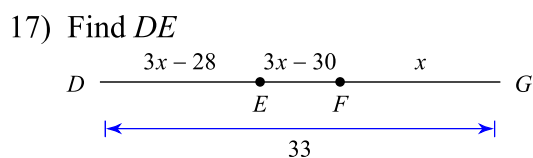
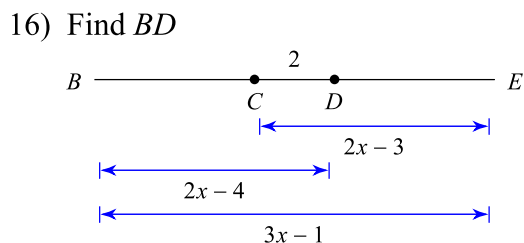
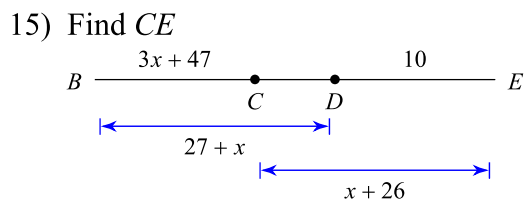
- 11) $AC = 3x + 3$, $AB = -1 + 2x$, and $BC = 11$.
Find x .

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

Solve for x .



Find the length indicated.



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 $x = 20$.