BECA / Dr. Huson / Geometry 05-Transformations pset ID: $66\,$

Name:

5-7DN-Segment-modeling

Do Not Solve!

Label the drawing completely and write an equation in terms of \boldsymbol{x} modeling the situation.

1. Given \overline{ABC} , with AB = x - 1, BC = 3x + 4, and AC = 19. Find AB.

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2. Given that O bisects \overline{NP} . NO = 3x, OP = 4x - 7. Find x.

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3. The points R, S, and T are collinear, with RS = 3x - 2 and ST = 11. If RT = 5x + 1, find RT.

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4. The point K is the midpoint of \overline{JL} , JK = 3x + 8, and JL = 8x + 36. Find JK.

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