For each of the following, draw a diagram and answer the questions that follow. Figures are not drawn to scale.

1) In triangle ABC, A = 3x - 10, B = 6x - 4, and C = x + 14. Find x and all angles.

2) In triangle DEF, <D = 2x - 12, <E = 3x + 8, and <F = 5x - 6. Find x and all angles.

3) In triangle RST, $\langle R = 3x - 7, \langle S = 4x - 6, \text{ and } \langle T = x - 9 \rangle$. Find x and all angles.

4) In triangle XYZ, $\langle X = 2y - 17, \langle Y = 2y + 4, \text{ and } \langle Z = 6y - 7. \rangle$ Find y and all angles.

5) In triangle ABC, A = x - 4, B = x - 6, and C = 2x + 8. Find x and all angles.