Math Worksheet

Solving Geometry problem by Algebra

Set up an equation to find the value of $x$, and then calculate the measure of each interior angle.

1. \[ \angle A = x, \quad \angle B = x - 10^0, \quad \angle AC = x + 40^0 \]

2. \[ \angle A = 4x + 6^0, \quad \angle B = x - 2^0, \quad \angle C = 6x - 4^0 \]

3. \[ A = 2x, \quad B = x, \quad C = x, \quad D = x + 60^0 \]
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4. \[ K = 2x + 16^0, \quad L = 100^0, \quad M = 2x - 16^0, \quad N = 72^0 \]

5. \[ P = 116^0, \quad Q = 11x - 10^0, \quad R = 3x + 4^0, \quad S = 148^0, \quad T = 87 - x \]