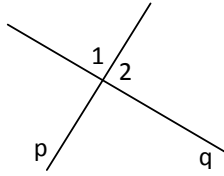


Answer on Question#37851-Math-Geometry

Question

Lines p and q intersect to form adjacent angles 1 and 2. If angle 1 = $8x + 4$ and angle 2 = $9x - 4$ find x so that p is perpendicular to q.

Solution



Since p is perpendicular to q, angle 1 is equal to angle 2 and

$$9x - 4 = 8x + 4$$

$$9x - 8x = 4 + 4$$

$$x = 8$$

Answer: $x = 8$