

Geometry
Unit: Introduction to Geometry
Section: Rays and Angles

Example: Congruent Angles

Screen 1

If angle B R D is congruent to angle P L N, solve for x. Angle B R D has measure four x plus 1 and angle P L N has measure six x minus 3.

Since the two angles are congruent their angles have equal measure. Four x plus 1 equals six x minus 3.

Add three to both sides and simplify. Four x plus four equals six x.

Subtract four x from both sides and simplify. Four equals two x.

Divided both sides by 2 to get 2 equals x.