

Section 6.3 Tests for Parallelograms

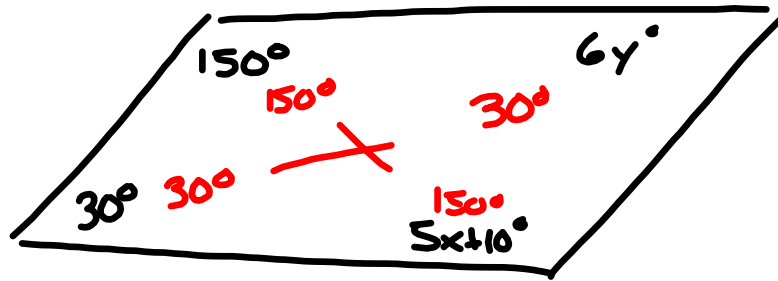
Obj: Recognize and apply the conditions to determine if a quadrilateral is a parallelogram.

Test 1 - If both sets of sides of a quadrilateral are congruent then it is a parallelogram.

Test 2 - If one ^{set} of sides of a quadrilateral are both congruent and parallel, then it is a parallelogram.

Test 3 - If the diagonals of the quadrilateral bisect one another, then it is a parallelogram.

Test 4 - If both pairs of opposite angles are congruent, then it is a parallelogram.



$$6y = 30 \quad \boxed{y = 5}$$

$$5x + 10 + 30 = 180$$

$$5x = 140$$

$$\boxed{x = 28}$$

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1-5 all, 18-29 all, 44-48 all