Parallelograms (part 2)

$$\frac{20,21}{2520} = \frac{(n-2)1800}{1800}$$

$$14 = n-2$$

$$16 = n$$

$$16-900$$

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Ways to Prove a Quadrilateral is a Parallelogram

- Show both pairs of opposite sides are parallel. Slope.
- > Show both pairs of opposite sides are congruent. Distance
- > Show both pairs of opposite angles are congruent.
- > Show one angle is supplementary to both consecutive angles.
- > Show the diagonals bisect each other.
- > Show one pair of opposite sides are congruent and parallel.

Using Coordinate Geometry

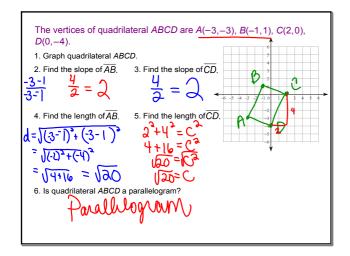
➤ Use slope to prove sides are parallel. (parallel lines have the same slope)

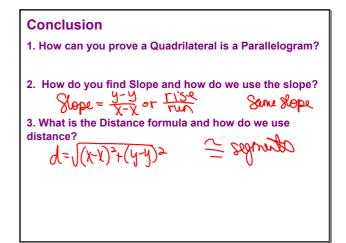
Slope =
$$\frac{y-y}{x-x} = \frac{rise}{rm}$$

> Use the Distance Formula or the Pythagorean Theorem to prove sides are congruent.

or
Dathadaran LPW
$$\sigma_{s+} \rho_{s} = C_{s}$$

by the daran LPW $\sigma_{s+} \rho_{s} = C_{s}$





example Jan 24-6:43 PM

Assignment Parallelograms #2 Wkst