Geometry Notes 6-3 Conditions for Parallelograms

In Section 6-2, we looked at the definition of a parallelogram and special properties of parallelograms. In this section, we will work backwards. Given a quadrilateral, how do we know whether or not it is a parallelogram? There are several ways to tell.

Conditions for Parallelograms

A quadrilateral is a parallelogram if:

- 1) Both pairs of opposite sides are parallel (remember this is the definition.)
- Both pairs of opposite sides are congruent.
- Both pairs of opposite angles are congruent.
- One pair of opposite sides is both parallel AND congruent.
- 5) An angle is supplementary to both of its consecutive angles.
- 6) Both diagonals bisect each other.

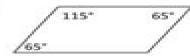
Ex. 1: Determine if each of the following must be a parallelogram. If so, give the reason.

dn()



Yes, one pair of sides parallel and =

b)



Yes, one angle is supp. to both consecutive angles

c)



No

Technically, yes. You can show that the parallel sides are ≡ by ASA.

Geometry Worksheet Conditions Of Parallelograms

Nichols

Geometry Worksheet Conditions Of Parallelograms:

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