

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.)
- 2) **Both** pairs of opposite **sides** are **congruent**.
- 3) **Both** pairs of opposite **angles** are **congruent**.
- 4) **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.

a)



Yes, one pair of sides parallel and \cong

b)



Yes, one angle is supp. to both consecutive angles

c)



No

d)



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

Conditions For Parallelograms Worksheet Answers

Robert R. Redfield



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