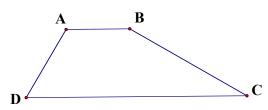
SECTION 7.5: PROPERTIES OF TRAPEZOIDS AND KITES

Learning Targets:

- 7g. Understanding of how to find side and angle measures for trapezoids and kites.
- 7h. Understanding of how to write and solve equations for angles and sides of trapezoids and kites.

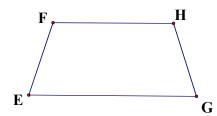
Trapezoid

A quadrilateral with exactly one pair of _____



Isosceles Trapezoid

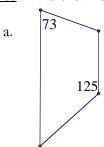
A trapezoid with ______legs



Rules

- 1. Base angles are _____
- 2. Diagonals are _____

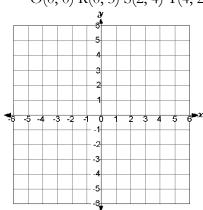
Examples: Find the missing angles



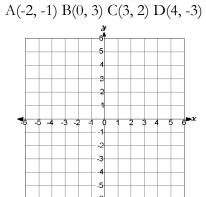
b. 5 / 78

Examples: Determine if the trapezoid is isosceles.

a. O(0, 0) R(0, 3) S(2, 4) T(4, 2)



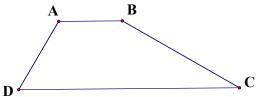
b.



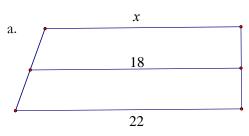
Midsegment of a Trapezoid

A midsegment of a trapezoid is made by connecting the ______ of the legs.

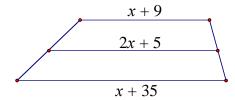
The length of the midsegment is ______ the _____ of the bases.



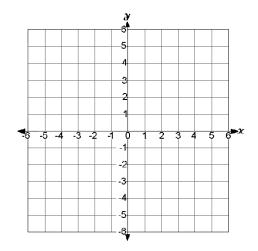
Examples: Solve for *x*.



b.

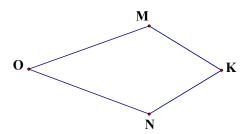


Examples: Find the length of the midsegment.



Kites

A quadrilateral with 2 pairs of consecutive ______ are _____



Rules

- 1. Diagonals are _____
- 2. 1 pair of opposite angles are _____

Examples: Find the missing angles

a.

