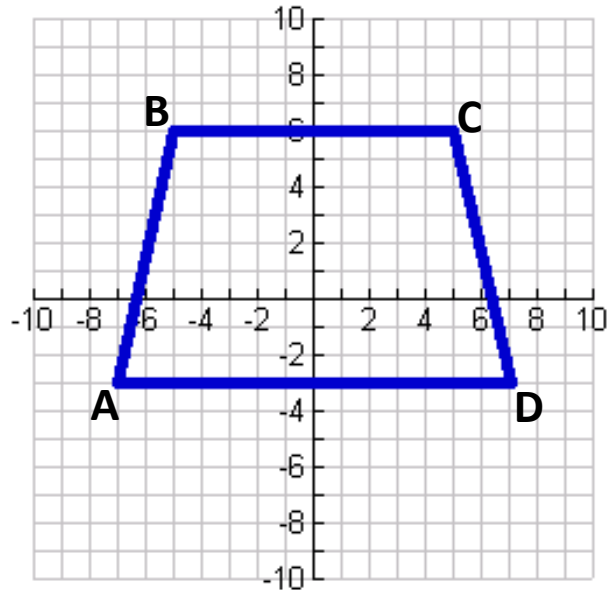


10.3 Trapezoids
Pre-AP Geometry

Name _____

Period _____ Date _____

Directions: Use the grid and trapezoid provided to discover the properties of a trapezoid. **WRITE ALL MEASUREMENTS ON THE DIAGRAM**



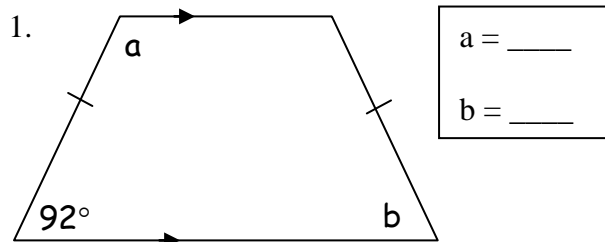
- 1) Find the length of each side. What do you notice?
- 2) Find the measure of the angles. What do you notice?
- 3) Find point E the midpoint of AB and point F the midpoint of CD. Then find the length of EF. What do you notice?
- 4) Find the length of the diagonals BD and AC. What do you notice?

10.3 Trapezoids
Pre-AP Geometry

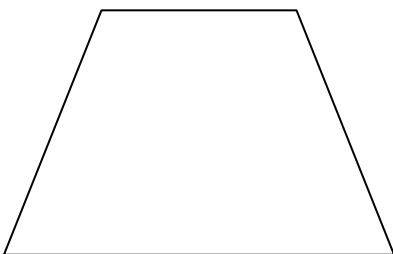
Name _____
Period _____ Date _____

Practice

Find the variables.



2. RSTV is an isosceles trapezoid with legs RV and ST. The diagonals intersect at W. $\angle RWS = 98^\circ$, $\angle STW = 37^\circ$. Find $\angle SRW$, $\angle RVT$, and $\angle VRT$.

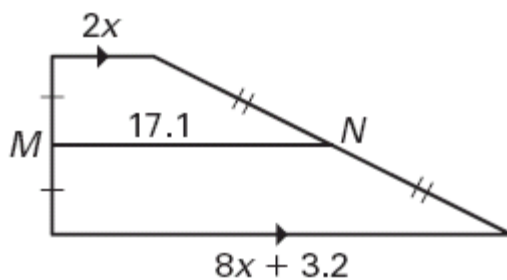


$m\angle SRW =$ ____
$m\angle RVT =$ ____
$m\angle VRT =$ ____

3. ABCD is an isosceles trapezoid with legs BC and AD. The diagonals intersect at W. $BD = 50$. $AW = 2x$. $WC = 3y$. $AD = 5x$. $BC = 3y + 27$. Find x and y.

$x =$ ____
$y =$ ____

4. Find the value of x.



$x =$ ____
