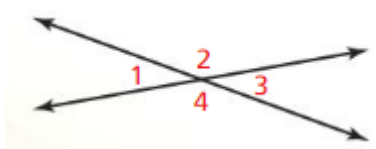
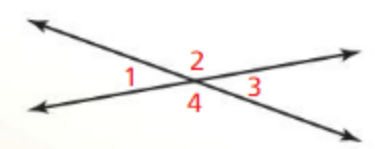


1. If $m\angle 1 = 20^\circ$ find the measure of the angles.
 Fill in the angles on the diagram. The drawing is not accurate. Don't use a protractor to measure.



2. If $m\angle 2 = 135^\circ$ find the measure of the angles.
 Fill in the angles on the diagram. The drawing is not accurate. Don't use a protractor to measure.

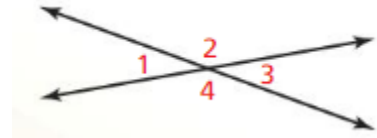


Vertical Angles Theorem:

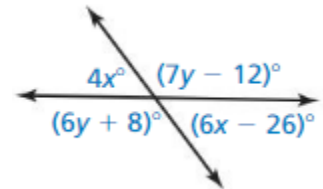
If two angles are vertical angles then they are congruent.

$\angle 1$ and $\angle 3$ are vertical angles so _____.

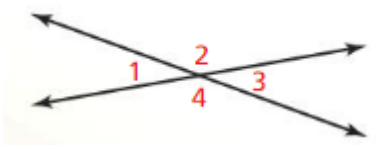
$\angle 2$ and $\angle 4$ are vertical angles so _____.



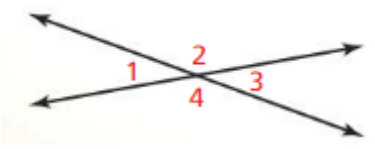
Example: Use the Vertical Angle Theorem to write equations. Solve for x and y . Fill in the value of each angle.



1. If $m\angle 1 = 20^\circ$ find the measure of the angles.
 Fill in the angles on the diagram. The drawing is not accurate. Don't use a protractor to measure.



2. If $m\angle 2 = 135^\circ$ find the measure of the angles. Fill in the angles on the diagram. The drawing is not accurate. Don't use a protractor to measure.

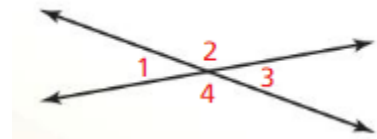


Vertical Angles Theorem:

If two angles are vertical angles then they are congruent.

$\angle 1$ and $\angle 3$ are vertical angles so _____.

$\angle 2$ and $\angle 4$ are vertical angles so _____.



Example: Use the Vertical Angle Theorem to write equations. Solve for x and y . Fill in the value of each angle.

