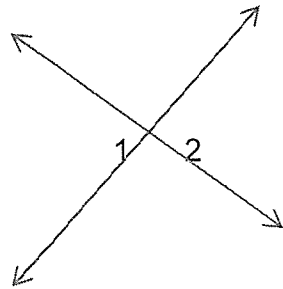


3. The measure of the supplement of an angle decreased by the measure of the angle is the same as twice the measure of the complement of this angle. Find the measures of the angle, the supplement, and the complement.

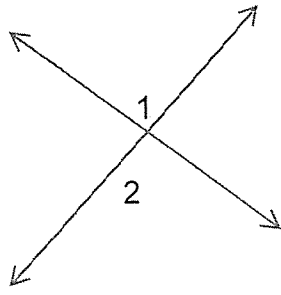
4.



$$m\angle 1 = 5x^2 - 9x \quad \text{and} \quad m\angle 2 = -12x + 2$$

Find the measures of angle 1 and angle 2.

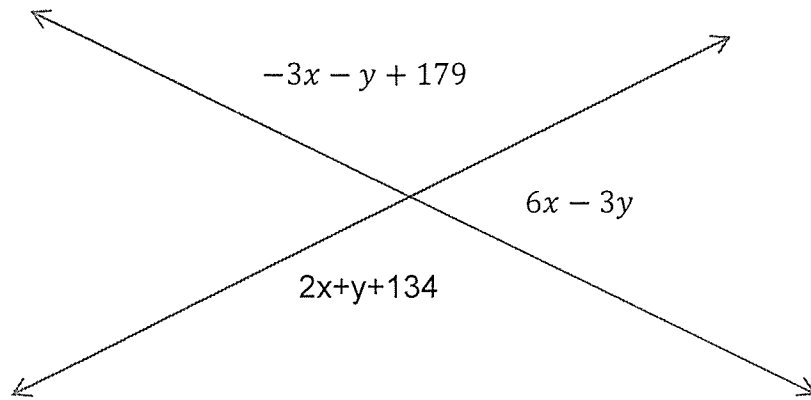
5.



$$m\angle 1 = 2x^2 + 10x \quad \text{and} \quad m\angle 2 = -3x + 7$$

Find the measures of angle 1 and angle 2.

6. Find the value of x and y . Then find the measures of each angle.



ANSWER KEY

1. 65, 115,; 13: 23
2. 23, 67, 157
3. 79, 11, 101
4. $X = -1$, omit $x = 2/5$, $m < 1 = 14$, $m < 2 = 14$
5. When $a = \frac{1}{2}$, each angle = 5.5
When $a = -7$, each angle = 28
6. $X = 7$, $y = 5$, angles are 153 and 27