**OBJECTIVE: S.W.B.A.T. use quadratic formula to find segments and angle measurements.**

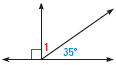
**Directions**: Complete the following Graphic Organizer

|  |  |
| --- | --- |
| Using Quadratics with Segments | Using Quadratics with Angles |
| Point B lies on the same line between points A and C.  If AB =  BC =  AC = 10  Find the value of x, the length of AB and the length of BC. | Ray OB lies in the interior of <AOC  If the    http://hotmath.com/hotmath_help/topics/angle-addition-postulate/fig-1.gif  Find the value of x and the m<AOC. |

**Solve the Following Quadratic Equations by factoring or quadratic formula**

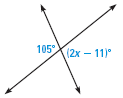
  

**ON YOUR OWN**

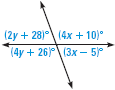
1. Find the measure of angle1.

2. Find the value(s) of the variable(s).

a.

b.

http://images.classwell.com/ebooks/images/mcd_geo/mcd_ma_geo_lsn_0395937779_p44_f23.gif

c.

3.

angle*C* and angle*D* are supplementary. The measure of angle*D* is eight times the measure of angle*C*. Find *m*angle*C* and *m*angle*D*.

4. If angle *ROS* is obtuse and angle *TOR* is straight, then angle *TOS* is what kind of angle? Explain.