Solve the following equations.

1. 2x - 1 = 7 2. 2x2 – 1 = 7

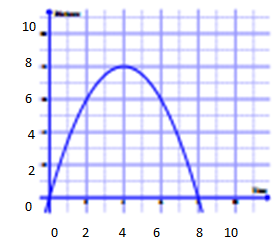
What are the differences and similarities in solving the first equation to the equation 2x2 – 1 = 7?

Complete each table and graph both equations on the grid below.





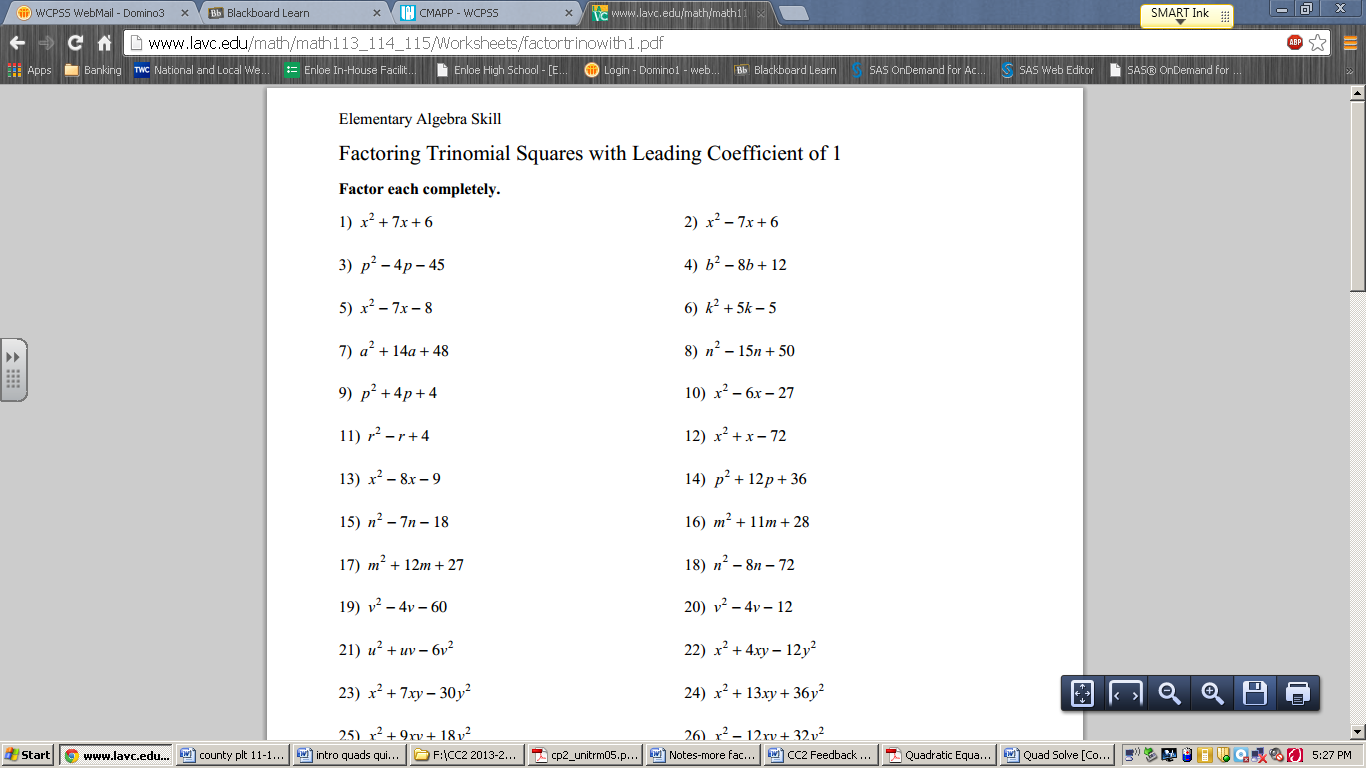
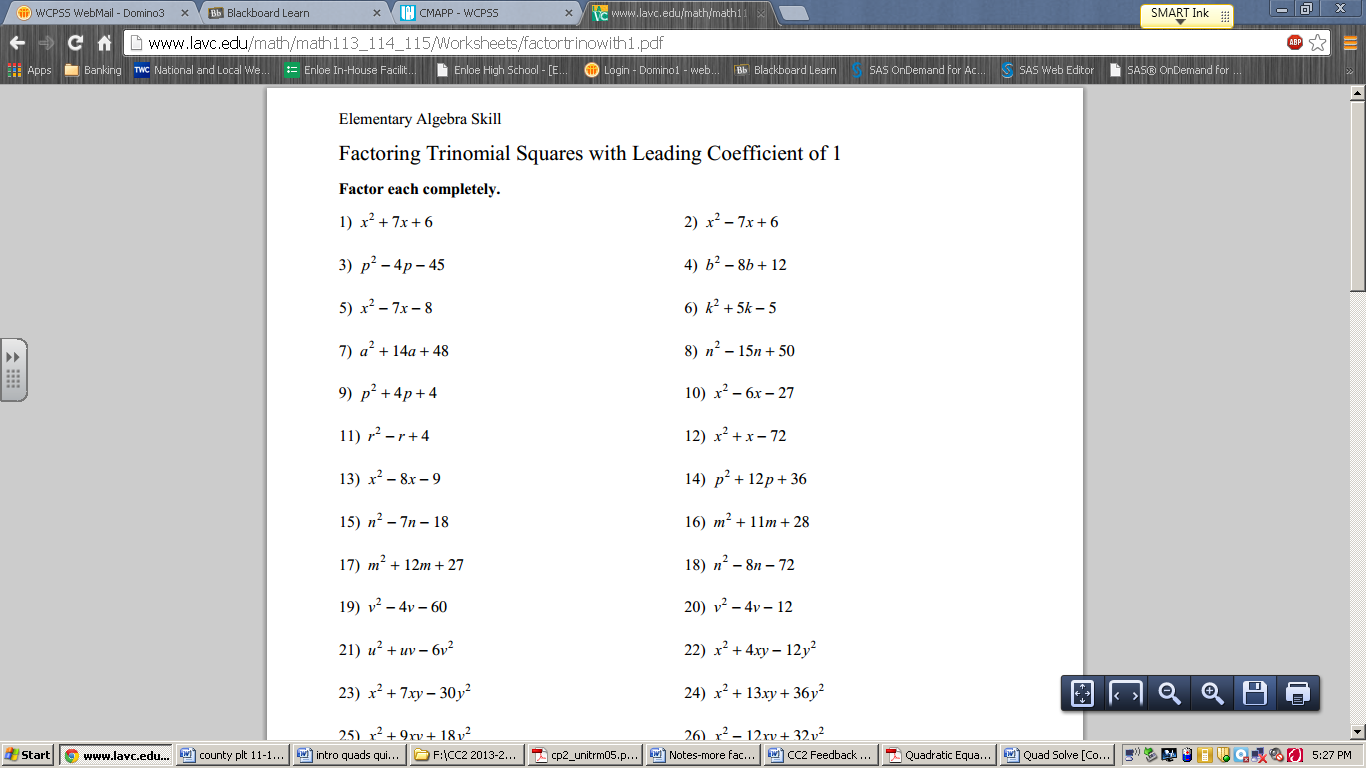
Use the following terms to label the graph below: **parabola, vertex, zeros and the axis of symmetry**.



What are the zeros or x-intercepts in the grid above?

What is the y-value of the x – intercepts?

What will a quadratic equation be set equal to in order to find the x-intercepts?

Factor and solve for the variable for the following problem. REMEMBER!!!!! Set the equation equal to zero, then set your factors equal to zero!