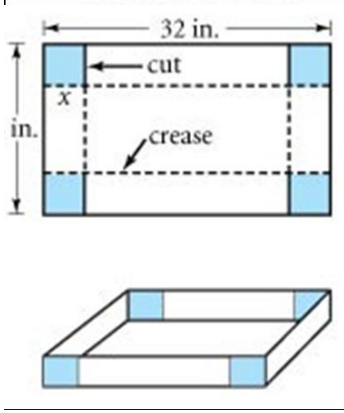
Name_____

Do Nows/Exit Tickets Algebra 2 –Feb 10th –Feb 14th

	Monday - Do Now	Tuesday - Do Now	Wednesday - Do Now	Thursday - Do Now	Friday - Do Now
	Complete the problems posted on the board	**Complete the problems posted on the board**	**Complete the problems posted on the board**	**Complete the problems posted on the board**	**Complete the problems posted on the board**

	Monday – Exit Ticket	Tuesday – Exit Ticket	Wednesday – Exit Ticket	Thursday – Exit Ticket	Friday – Exit Ticket
	Describe the four possibilities of end behavior of the graph of a polynomial function.	**Describe the graph of $2x^2 + x^3 + 3x + 1$. Include any turning points, its continuity, and its end behavior.**	**V = lwh.** **Find the volume of a box with** **height = x** **length= (16-2x)** **width = (12-2x)**	**101. MANUFACTURING** An open-top box is made from a 14-inch-by-32-inch piece of cardboard, as shown at right. The volume of the box is represented by $V(x) = x(14 - 2x)(32 - 2x)$, where x is the height of the box. **a.** Write the volume of the box as a polynomial function in standard form. **b.** Find the volume of the box if the height is 2 inches. 	**Describe how the factor theorem can be used to determine whether x + 1 is a factor of $x^3 - 2x^2 - 8x - 5$**