From Friday

rremrinacy	
Name	
Algebra II	J
1) $y = -3(x-h)^2 + k$	Review Graphing Quadratics
1) $y = -3(x-1)^2 + 6$	2) $y = -4x^2 + 3$ - $7(X - 4x^2 + 3)$
Vertex: (1,6)	Vertex: (D, 3)
Stretched, compressed or neither? By what factor?	Stretched compressed or neither By what factor?
Opens up or down?	Opens up or down?
9K-h3+k	
3) $y = \frac{1}{2}(x+4)^2$	
Vertex: (-4,0)	
Stretched, compressed or neither?	
By what factor?	
Opens up or down?	

Write the new function.

4) Starting with the parent function $y = x^2$, reflect the function across the x-axis and translate the function down 4 and left 2. $y = q(x-h)^2 + k$ $y = -(x-2)^2 + 4$ $y = -(x-2)^2 + 4$

Starting with the parent function $y = x^2$, compress the function by a factor of 2 and translate the function left 5. $y = 2(x+5) + 0 \quad \text{or} \quad 2(x+5)^2$

Starting with the parent function $y = x^2$, stretch the function by a factor or 4 and reflect it across the x-axis.

$$y = \frac{1}{4}(x-0)^2 + 0$$
 or $y = -\frac{1}{4}x^2$

a is neg.

