Name:	Date:
Week of October 20 Homework Algebra 2a	Due: October 24
1) If $p(x) = x^2 + 5x - 6$ , find a. Where $p(x)$ intersects the y-axis.	
b. Where p(x) intersects the x-axis.	
c. If $q(x)=x^2+5x$ , find the intercepts of $q(x)$ and compare the graphs of $p(x)$ and $q(x)$ .	
X-intercept:	
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Y-intercept:	
d. Find p(x)−q(x).	
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Name:	Date:
Week of October 20 Homework Algebra 2a Due: October 24  2) Use what you learned in the parabola investigation to write an equation for each of the parabolas described below. 2-25 HW eTool (Desmos). Homework Help	
a. A parabola opening upward, shifted 8 units right, and 5 units down.	
b. A parabola with a stretch factor of 10, sitting with its vertex on the x-axis at $x = -6$ .	
c. A downward-opening parabola with verte	ex $(-7,-2)$ and a vertical compression of 0.6.