Name:	Date:	
Class:	Teacher:	

Math Mini Quiz 6

This Mini Quiz, we're going to explore the math concepts that you've learned so far in this unit. This assignment should take you about **20 minutes**.

1) Each of the equations is given in one of the forms that we talked about in class (standard, factored, vertex). For each one, *label the form* and *write and label the other two remaining forms*

a)
$$y = 2(x - 5)(x + 1)$$

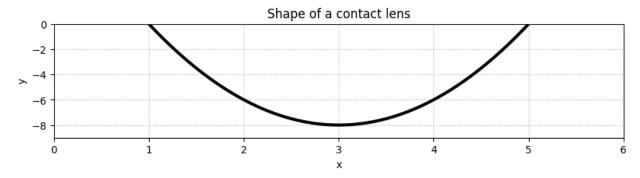
b)
$$y = (x - 1)^2 - 4$$

c)
$$y = 2x^2 + x - 1$$

2) Below you have the graph representing the shape of a contact lens¹, often considered a more convenient way of correcting vision than glasses. Its shape follows a quadratic equation (similar to the parabolic example we covered in class).



Write the function y(x) to express the shape of the contact lens. You may write it in any form that you would like. You may need to do some work, but not a lot of work to reach your answer.



 $^{^1\,\}hbox{Contact lens image from https://www.healthline.com/health/eye-health/how-to-put-in-contact-lenses}$