Quiz 4 Math 3C: Precalculus October 31, 2019

When you finish, please remain seated until class is dismissed

Name:	PID:
Problem 1 (3 points). Let $p(z) = 2z^2 + 3z - 2z^2 + 2z^2 +$	
Problem 2 (7 points). Let $f(x) = -2(x+1)$. $f(x)$ is $f(x) = -2x^4 + 6x^3 - 2x^2 - 6x + 4$.	$(x-1)^2(x-2)$. Another way of writing
$f(x) \text{ is } f(x) = -2x^{3} + 6x^{3} - 2x^{2} - 6x + 4.$ (a) What is the long-run behavior of $f(x)$?	
(b) What is the vertical intercept of $f(x)$?	

(c) What are the horizontal intercepts (zeros) of $f(x)$?	
(d) What are the multiplicities of the zeros you found in part (c)?	
(e) Sketch a graph of $f(x)$. Be sure to label the vertical and horizontal integration	rcepts.