

PRE-AP ALGEBRA 2

1A.3. CLASSWORK

- 1) By using algebra, find the equation of the parabola which passes through the points  $(-3,1)$ ,  $(-1,1)$  and  $(0,7)$ .

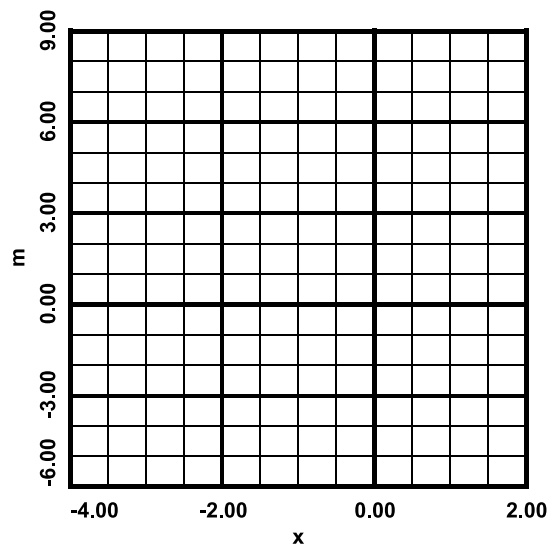
- a) fill in the table,

$x$	$y$
-4	
-3	
-2	
-1	
0	

- b) calculate the slopes, *i.e.*, fill in the table,

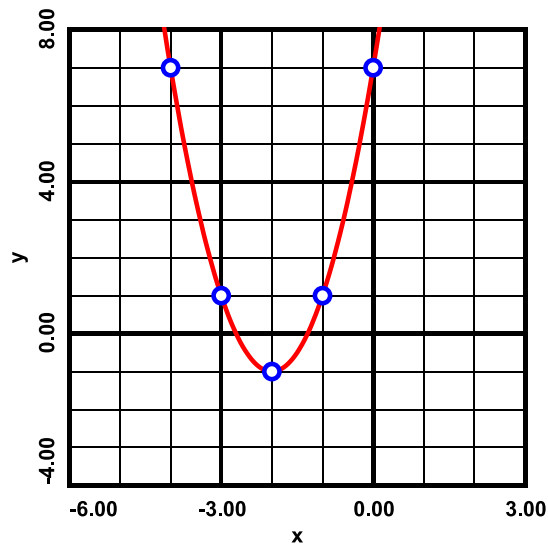
$x$	$m$
-3.5	
-2.5	
-1.5	
-0.5	

- c) and graph the slope  $m$  on the following grid.



- 2) Confirm your result for problem 1 using quadratic regression.

- 3) For the parabola  $y = 2x^2 + 8x + 7$  graphed:



- d) What is the linear equation which represents the slope?