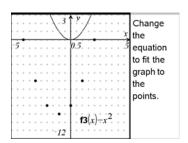
1 offits of Quadratic Equations	
	Name
Open the Quadratic Equations File and turn to page 1.2	
Use the trace feature (5) 1 and move along the graph to find the coordinates of the vertex and the x-intercepts. When you have the vertex, an m should appear on the screen. When you have an x-intercept, a should appear on the screen.	Use trace to find the coordinates of the vertex and the x-intercepts.
Vertex x-intercepts	
Draw a perpendicular line through any point on the grid and perpendicular to the x-axis. (1) (perpendicular) Select a point on the grid "point on" and then select the x-axis. Grab the point (2) and move the point until it is on the vertex of the parabola. Equation of the axis of symmetry:	Draw in a line of symmetry. Give the equation of the axis of symmetry and give a possible equation of the function.
Possible equation of the function:	
1.4 Double click on the equation and change one or more numbers to move the graph. Try to move the graph so the vertex falls on each of the different points shown. What equations resulted in the desired moves?	Change the equation until the vertex passes through each of the points shown.
1.5 Mark the answer to the true/false question.	$-x^2-4x$ $-(x)(x+4)$ $-(x+2)^2$ The above are all equations of the same graph.

○ True ○ False Double click on the equation and change it so that the graph falls on top of all of the points shown. What equation satisfied the required move?

1.7

Use the calculator page at the bottom of the screen and the equation $h=-16t^2+h_o$ to solve for the information.



Wiley Coyote is standing on a cliff 254 feet about Roadrunner. If Wiley Coyote drops a boulder from the cliff, how much time does Roadrunner have to move out of its way?

