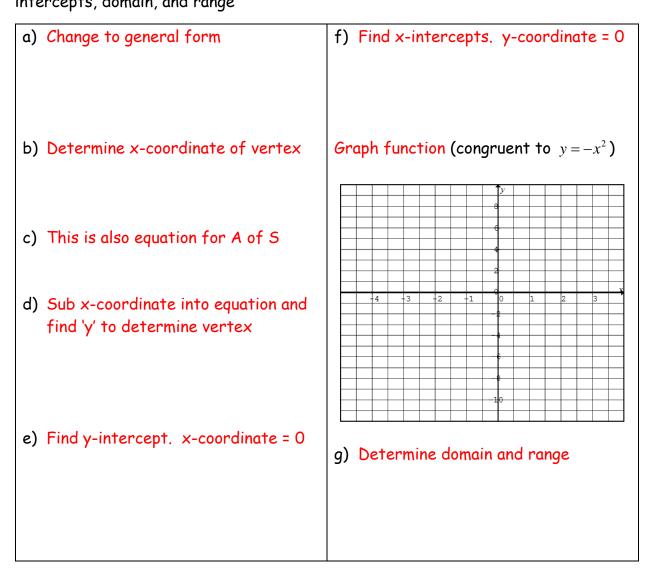
Precalculus 11

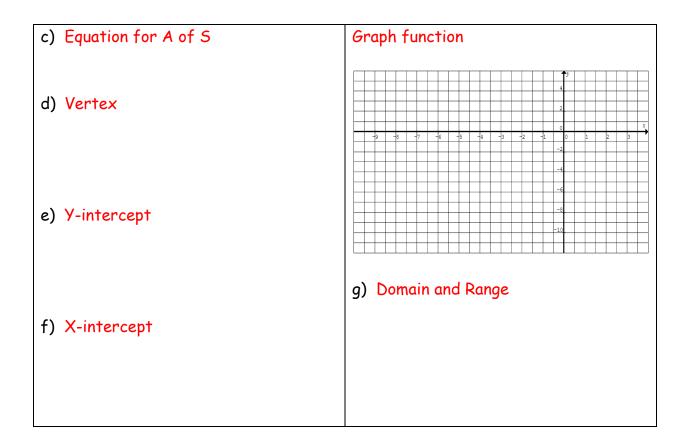
Let's continue with last day's lesson with another example.

Example 1: Given $y = -2(x+1)^2 + 8$, determine the vertex, the A of S, x & y-intercepts, domain, and range

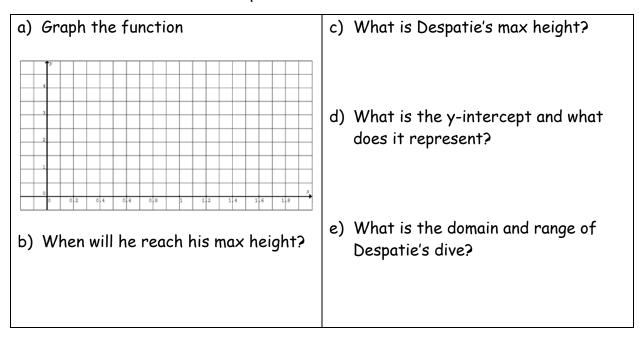


Example 2: Given $y = -0.5x^2 - 3x - 0.5$, determine the vertex, the A of S, x & y-intercepts, domain, and range

a) General form	b) X-coordinate of vertex



Example 3: Alexandre Despatie is a world class Canadian Olympic diver. At the 2008 Beijing Olympics, his height (h), in meters, from one of his forward somersault dives from the 3 m springboard is given by $h(t) = -4.9t^2 + 6t + 3$, where (t) is the time in seconds after Despatie leaves the board.



three sides by a total of 80 m of fencing. River

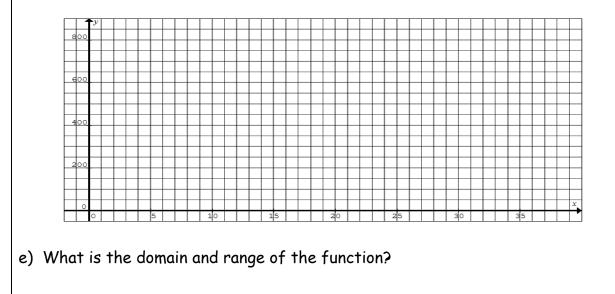
Example 4: A rectangular lot is bounded on one side by a river and on the other



a) Use variables to represent the length, width, and area of the lot. b) Write an equation in general form to represent the area of the lot.

c) What are the coordinates of the vertex and what do they represent?

d) Graph the function



Homework: