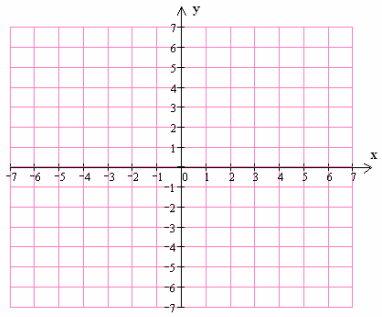
MATH2 (814012) –F42- SPRING 2006

QUIZ # (3) 18/4/2006

NAME:..... **I.D:**.....

Question (1): Let $f(x) = x^2 - 6x + 5$. Find the following:

(1) Vertex =



(2) y-intercept =

(3) x-intercept =

(4) Graph $f(x)$.

(5) Domain =

(6) Range =

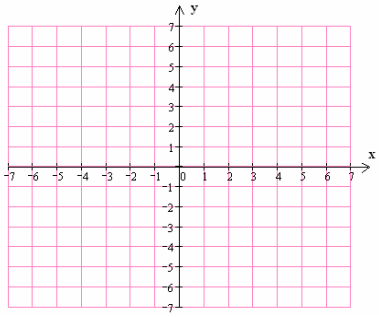
(7) Maximum or Minimum =

(8) Intervals on which $f(x)$ is increasing or decreasing =

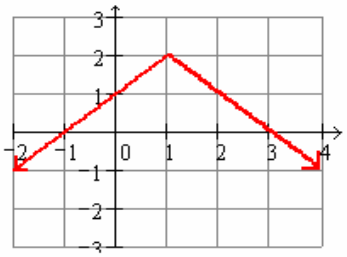
Question (2):

(1) Use transformations to graph the following function. Start from basic function (**write all steps**)

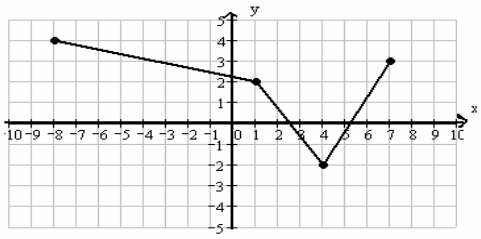
$$f(x) = -(x-2)^2 + 3$$



(2) Give an equation for the function f *in* the following graph (start from basic function).



(3) Given the graph of $g(x)$. Graph $h(x) = g(x-2)$



$g(x)$

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Good Luck

Mahmoud Syam