

Classwork 5

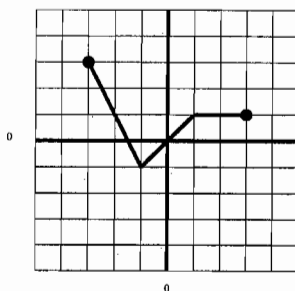
College Algebra and Trigonometry, MTH 123, Section 3260, Fall 2011

Instructor: Abhijit Champanerkar

Sept 21st 2011

Name: SOLUTIONS

1. The graph of $y = f(x)$ is as shown.



Sketch the graphs of the following functions:

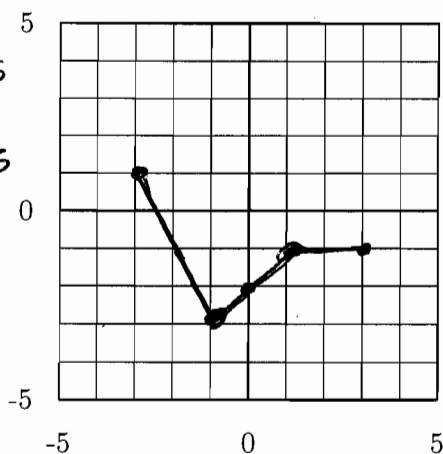
(1) $y = f(x) - 2$

(2) $y = f(x + 2)$

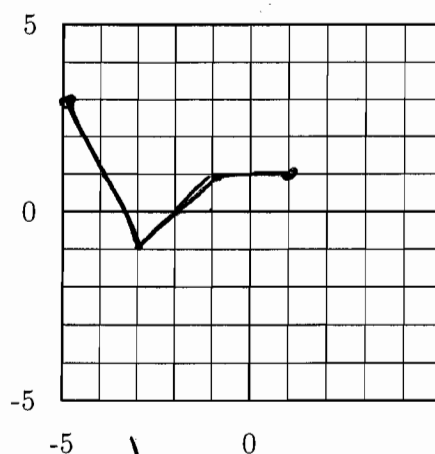
(3) $y = -f(x)$

(4) $y = 2f(x)$

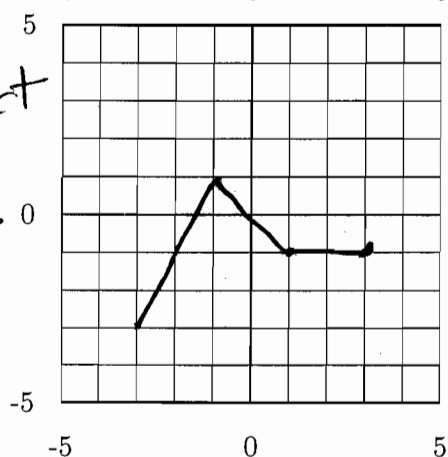
shifts
down
2 units



shifts to
left 2 units



Reflect
about
x-axis



Stretch
vertically
by 2 units
 $2f(-1) = 2$
 $2f(0) = 0$
 $2f(-1) = -2$
 $2f(-2) = 2$
 $2f(-3) = 6$

