1. Use the graph of f below to evaluate each of the following. Notice: there is an open circle at the point (3,1) and a closed circle at (3, 7).

a. $f(0) =$ _____

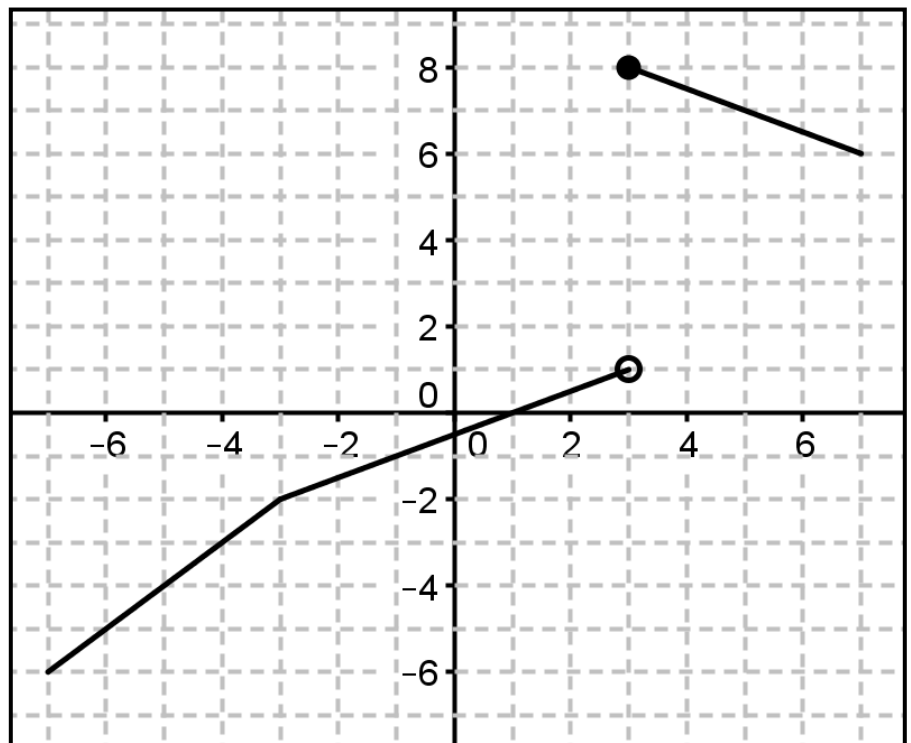b. $f^{-1}(0) =$ _____

c. $f(3) =$ _____

d. $f(-5) =$ _____

e. $f^{-1}(-2) =$ _____

f. $f^{-1}(8) =$ _____

2. Eric ran in the Chicago Marathon (a marathon is race that is 26.2 miles long). Let $D(t)$ represent the distance he traveled in miles during the race as a function of time t, measured in hours from the time he started running.

Write a complete sentence to translate what each of the following statements mean in the context of the given situation.

A. $D^{-1}(10) = 2$

B. $D(.5) = 3$

C. $D^{-1}(26.2) = 6.5$

3. Functions f and g are given below with tables. Use these tables to evaluate the following.

$f(2) = $ _____ $g^{-1}(8) = $ _____ $f(-1) = $ _____

$f^{-1}(-1) = $ _____ $f^{-1}(-4) = $ _____ $g^{-1}(3) = $ _____

$g^{-1}(-2) = $ _____ $g(3) = $ _____ $f^{-1}(5) = $ _____

$g(1) = $ _____ $f(-4) = $ _____ $g(8) = $ _____

x	f(x)	x	g(x)
0	-4	8	-2
2	5	3	1
-1	0	-2	8
5	-1	5	3
-4	2	1	5