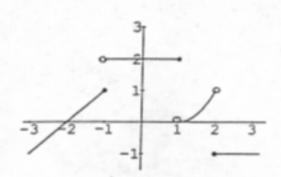
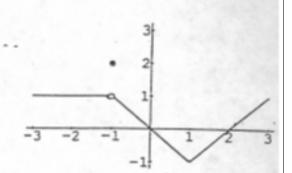
1. The graphs of the functions f and g are given below.



graph of f



graph of g

Determine whether the following limits exist. If they do, then find the limit.

a.
$$\lim_{x\to -1} f(x)$$

c.
$$\lim_{x \to -1} g(x)$$

e.
$$\lim_{x \to -1} f(x) + g(x)$$

g.
$$\lim_{x\to -1} f(x)g(x)$$

i.
$$\lim_{x\to 0} \frac{f(x)}{g(x)}$$

k.
$$\lim_{x\to -2} g(f(x))$$

b.
$$\lim_{x\to 1} f(x)$$

d.
$$\lim_{x\to 1} g(x)$$

f.
$$\lim_{x\to 0} 2f(x) + 3g(x)$$

h.
$$\lim_{x\to 2} f(x)g(x)$$

j.
$$\lim_{x\to 0} \frac{g(x)}{f(x)}$$

1.
$$\lim_{x\to -1} f(g(x))$$

The graphs of functions f and g are those given in Problem 1 above. Determine whether
the following limits exist and find the limit when it exists.

a.
$$\lim_{x\to -1^-} f(x)$$

c.
$$\lim_{x\to -1^-} g(x)$$

e.
$$\lim_{x\to 0^-} f(x+2)$$

b.
$$\lim_{x \to -1^+} f(x)$$

d.
$$\lim_{x\to -1^+} g(x)$$

f.
$$\lim_{x\to -1^-} f(x^2)$$