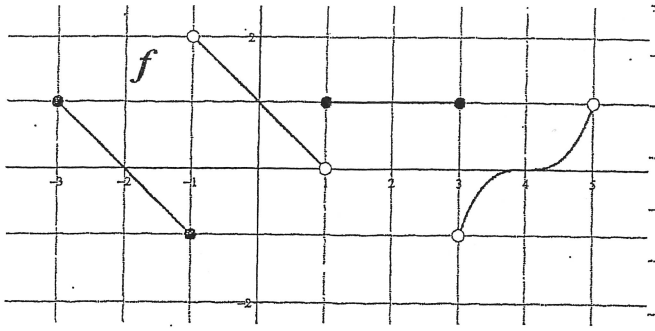
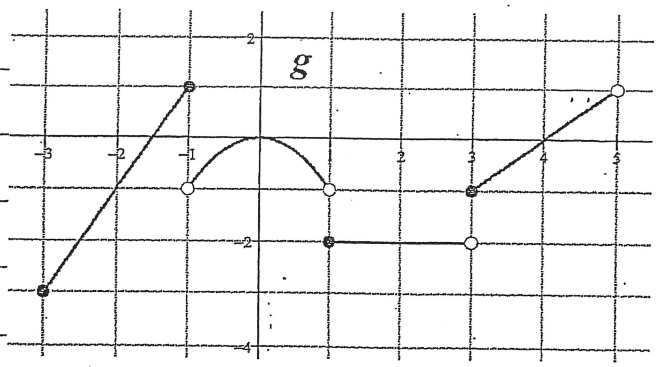
Limits of 2 Functions





a) $\lim_{x\to 1}(f(x)+g(x))$

b) $\lim_{x\to -2}(f(x)+g(x))$

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

d) $\lim_{x\to 1^+}\frac{g(x)}{f(x)}$

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

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

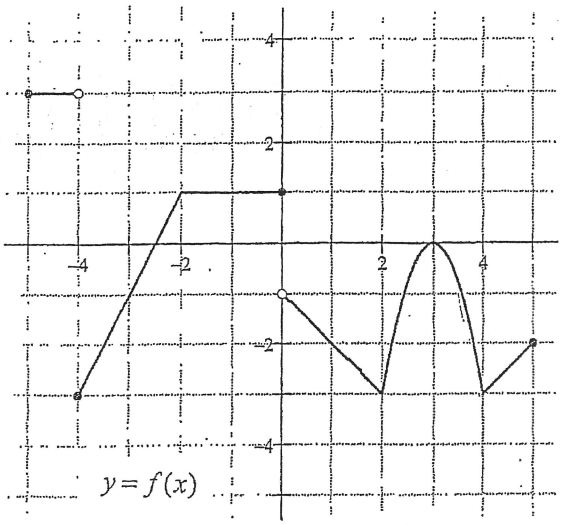
g) $\lim_{x\to 3^-}(f(x)+g(x))$

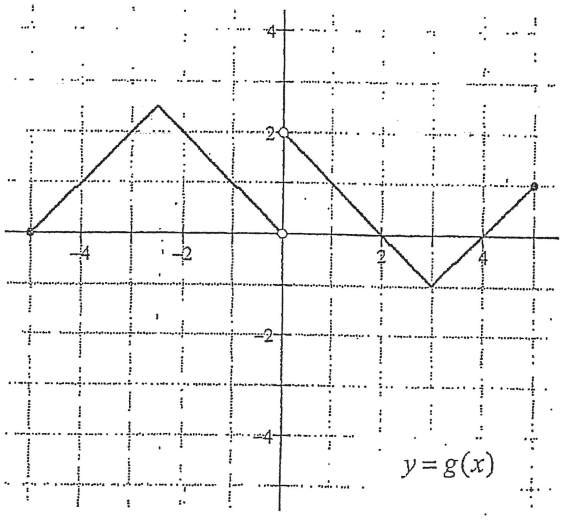
h) $\lim_{x\to 3^+}(f(x)+g(x))$

i) $\lim_{x\to 3}(f(x)+g(x))$

j) $\lim_{x\to -1^+} f(g(x))$

A. -1
B. -1
C. $-\infty$
D. -2
E. 0
F. 2
G. -1
H. -2
I. dne!
J. 2





$g[f(4)]=$ 2

$\lim_{x\to 2} g[f(x)]=$ Dne

$\lim_{x\to 4} f[g(x)]=$ 1

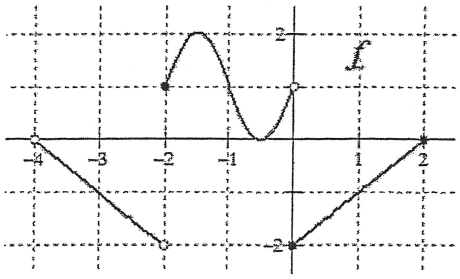
$f[g(0)]=$ 2

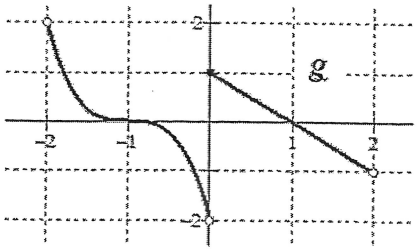
$\lim_{x\to 3} g[f(x)]=$ 0

$\lim_{x\to 2^-} f[g(x)]=$ 1

$g[f(0)]=$ dne

$\lim_{x\to 0} g[f(x)]=$ -1





a. $\lim\limits_{x \to 2^-} \dfrac{f(x)}{g(x)}$ _____

b. $g(0)$ _____

c. $\lim\limits_{x \to 0^-} f(g(x))$ _____

d. $\lim\limits_{x \to -2^-} f(x)$ _____

e. $\lim\limits_{x \to 0} \left(f(x) + g(x)\right)$ _____

f. Name the *open intervals* where $f(x)$ is continuous. _____