Quiz 4	SM121 Section 2043	15 Sep 08

3-0235 — 50 SHEETS — 5 SQUARES
3-0236 — 100 SHEETS — 5 SQUARES
3-0237 — 200 SHEETS — 5 SQUARES
3-0137 — 200 SHEETS — FILLER
COMET

1. Use the given graph of f to state the value of each quantity if it exists.

a) $\lim_{x \to 3} f(x)$ 1

b) $\lim_{x \to 1^-} f(x)$ 3

c) $\lim_{x \to 1^+} f(x)$ 3

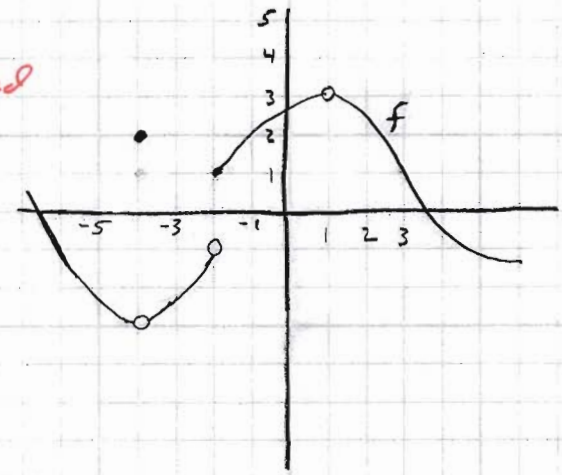
d) $\lim_{x \to 1} f(x)$ 3

e) $f(1)$ undefined

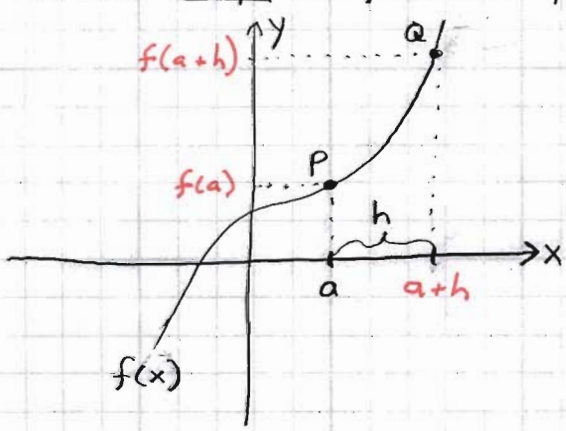
f) $\lim_{x \to -2^-} f(x)$ −1

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

h) $f(-4)$ 2



2) Given the graph of f below, what is the equation of the slope of the line passing between points P and Q?



$$\text{slope} = \frac{\Delta y}{\Delta x} = \frac{f(a+h) - f(a)}{a+h-a}$$

$$\text{slop} = = \frac{f(a+h) - f(a)}{h}$$