QUIZ 2

201-NYA-50
CALCULUS FOR ELECTROTECH
JAN 28th 2011
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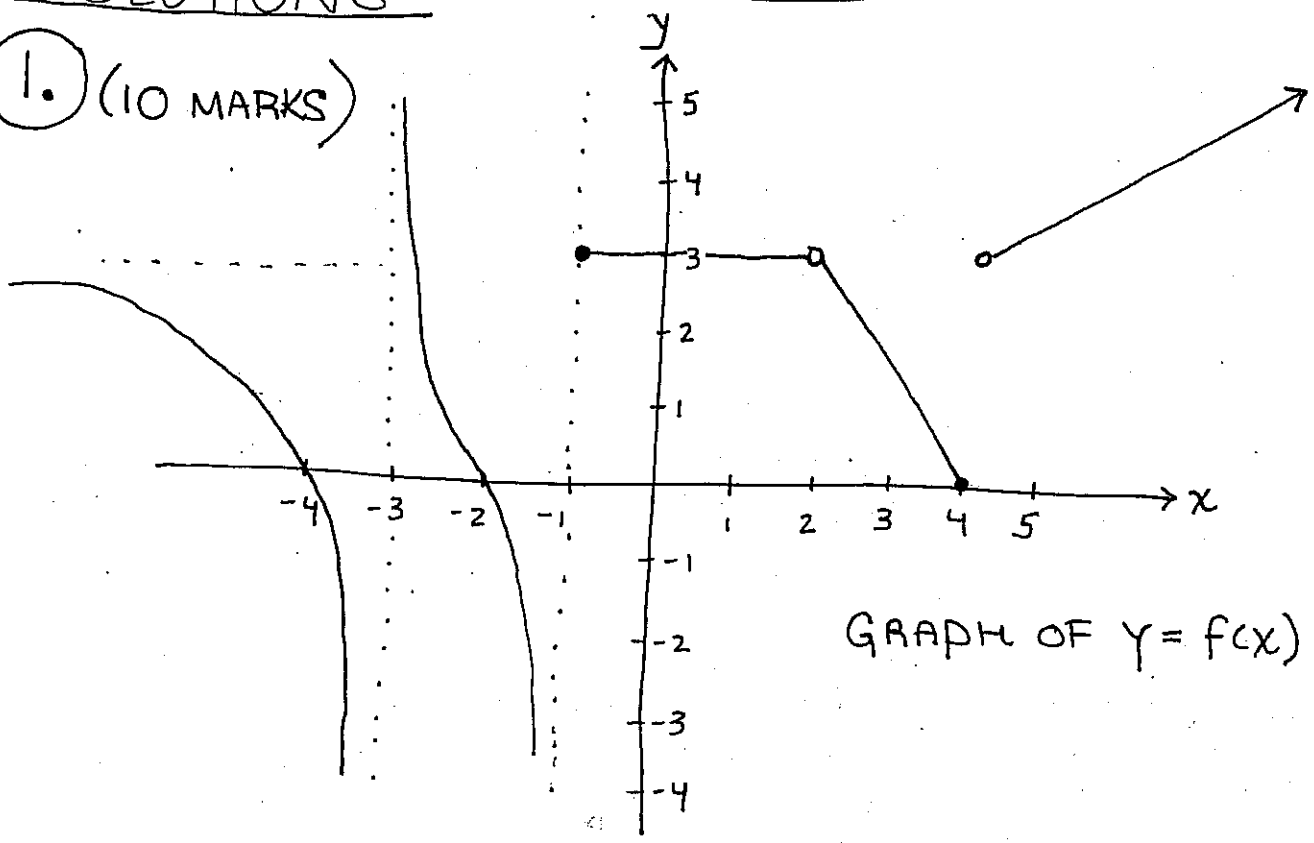
NAME:
SOLUTIONS

1. (10 MARKS)



GRAPH OF $Y = f(x)$

Using the above graph, find the values of the following:

a. $\lim_{x \to -1^+} f(x)$ 3

b. $\lim_{x \to 4^-} f(x)$ 0

c. $\lim_{x \to 4} f(x)$ D.N.E.

d. $f(4)$ 0

e. $\lim_{x \to -\infty} f(x)$ 3

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

g. $f(2)$ DNE

h. $\lim_{x \to -3^+} f(x)$ $\to \infty$

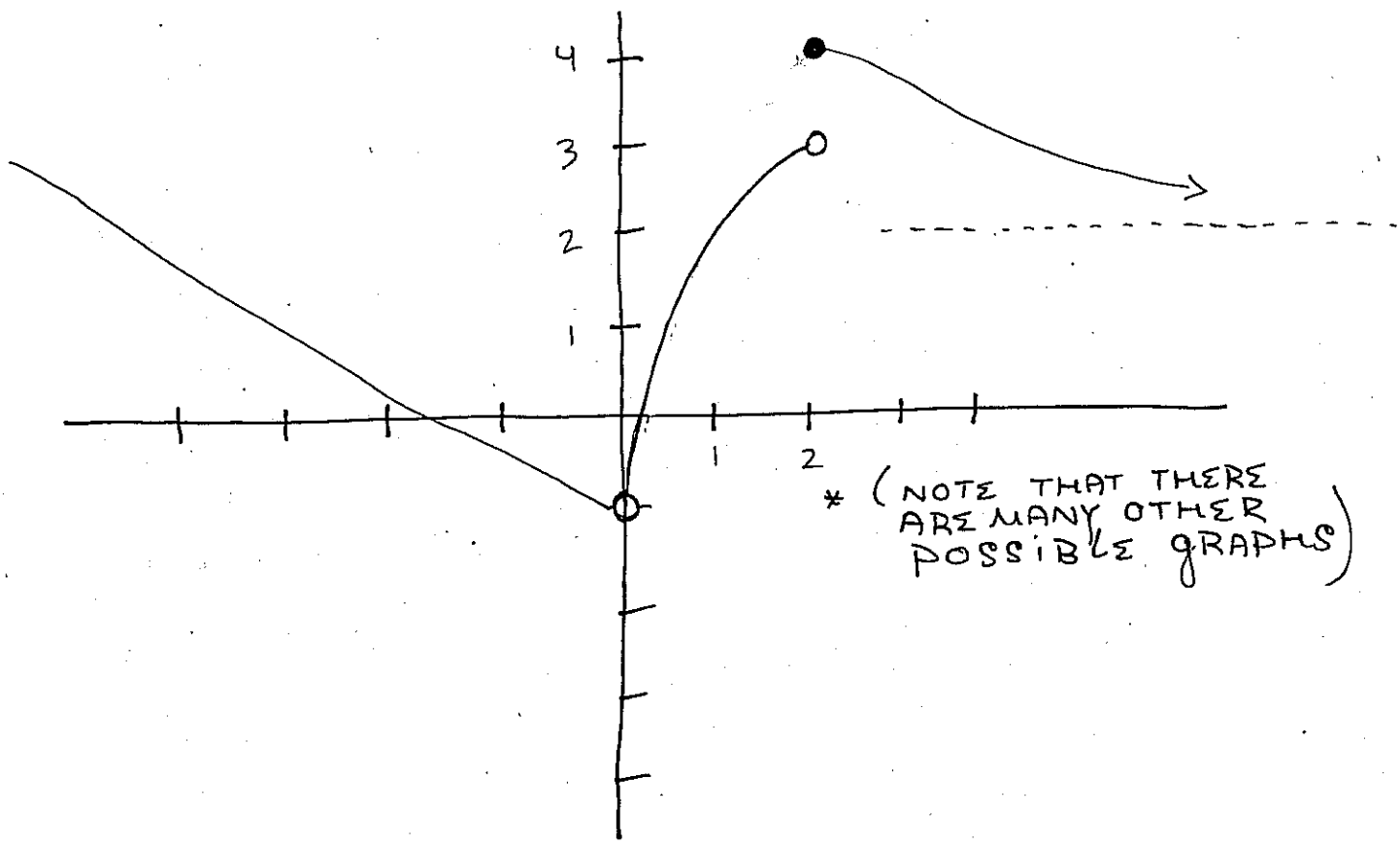
i. $\lim_{x \to -2} f(x)$ 0

j. $f(-1)$ 3

(2.) (5 MARKS)

DRAW A FUNCTION $y = f(x)$ THAT HAS ALL FIVE OF THE FOLLOWING PROPERTIES:

1. $f(2) = 4$
2. $\lim_{x \to 2} f(x)$ DOES NOT EXIST
3. $f(0)$ DOES NOT EXIST
4. $\lim_{x \to 0} f(x) = -1$
5. $\lim_{x \to \infty} f(x) = 2$



* (NOTE THAT THERE ARE MANY OTHER POSSIBLE GRAPHS)