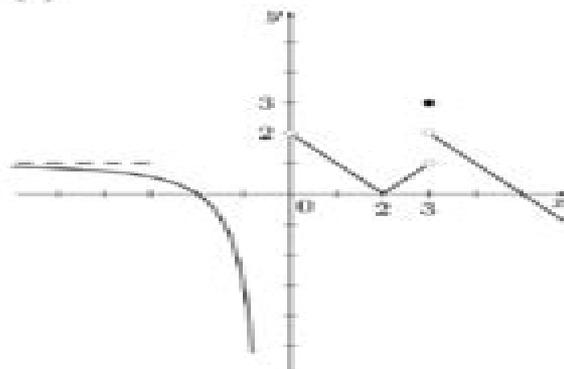


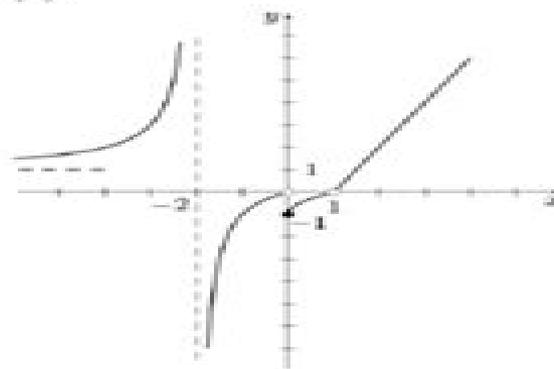
201-103-RE - Calculus 1
WORKSHEET: CONTINUITY

1. For each graph, determine where the function is **discontinuous**. Justify for each point by: (i) saying which condition fails in the definition of continuity, and (ii) by mentioning which type of discontinuity it is.

(a)



(b)



2. For each function, determine the interval(s) of continuity.

(a) $f(x) = x^2 + e^x$

(c) $f(x) = \sqrt[3]{5-x}$

(b) $f(x) = \frac{3x+1}{2x^2-3x-2}$

(d)* $f(x) = \frac{2}{4-x^2} + \frac{1}{\sqrt{x^2-x-12}}$

3. For each piecewise defined function, determine where $f(x)$ is continuous (or where it is discontinuous). Justify your answer in detail.

(a) $f(x) = \begin{cases} 2^x - 3x^2 & \text{for } x \leq 1 \\ \log_{10}(x) + x & \text{for } x > 1 \end{cases}$

(b) $f(x) = \begin{cases} \frac{2x}{x} & \text{for } x \leq 0 \\ x^2 - 3x & \text{for } 0 < x < 2 \\ \frac{x^2-8}{x} & \text{for } x > 2 \end{cases}$

4. Find all the value(s) of the parameter c (if possible), to make the given function continuous everywhere.

(a) $f(x) = \begin{cases} c \cdot 3^x - x^2 + 2c & \text{for } x \leq 0 \\ 2x^5 + c(x+1) + 16 & \text{for } x > 0 \end{cases}$

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