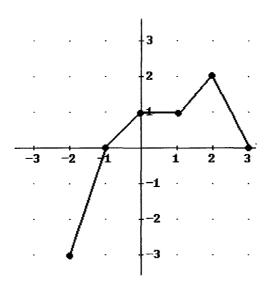
Free calculus worksheets from www.analyzemath.com

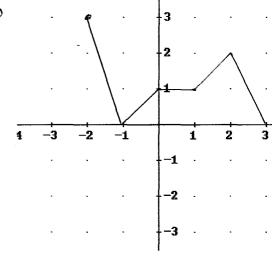
Calculus Worksheet: Limits of Functions (1)

The graph of function f defined on the interval [-2, 3] is shown below.



1. Sketch the graph of y = |f(x)| and find its domain and range.

$$|f(x)| = f(x)$$
 if $f(x) \geq 0$
 $|f(x)| = -f(x)$ if $f(x) < 0$



Domai: [-2, 3]

range: [0, 3]: absolute value of an expression is always o or positive.

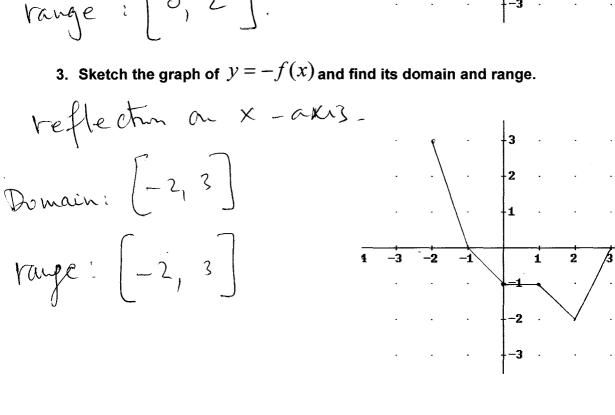
2. Sketch the graph of y = f(|x|) and find its domain and range.

$$f(|x|) = f(x) | x > 0$$

$$f(|x|) = f(-x) | x < 0$$
It is an even function

Donai: $\begin{bmatrix} -3 \\ 3 \end{bmatrix}$

Vauge: $\begin{bmatrix} 0 \\ 2 \end{bmatrix}$.



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4. Sketch the graph of y = f(-x) and find its domain and range.

