**Piecewise Functions**

Sketch the following functions:

(a) $f\left(x\right)=2 for -5\leq x<0$

$$f\left(x\right)=2-x     for 0\leq x\leq 3$$

$$f\left(x\right)=-1      for 3<x\leq 5$$

(b) $f\left(x\right)=x for -4\leq x<0$

$$f\left(x\right)=x^{2}      for 0\leq x\leq 4$$

(c) $f\left(x\right)=x^{2}+1 for -4\leq x<0$

$$f\left(x\right)=1      for 0\leq x\leq 2$$

$$f\left(x\right)=x-1    for 2<x\leq 4$$

(a) Given the graph of $y=f(x)$, define the function, stating the domain of each part clearly.



(b) Evaluate $f(1)$

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