1. Plot these points in the $xy-$plane:

   A $(0,0)$ B $(5,0)$ C $(0,-4)$ D $(-3,5)$

2. Without using a calculator, sketch a graph of each of these in the $xy-$plane:

   A $y=x$ B $y=3$ C $x=3$ D $y=x^2$ E $y=\dfrac{1}{x}$

3. Consider the function

$$f(x)=\begin{cases}2x+1 & x<1\\ x^2-1 & x\geq 1\end{cases}$$

   a. Evaluate $f(0)$, $f(1)$ and $f(2)$.

   b. Sketch a graph of $y=f(x)$.

4. Let $f(x)=\sqrt{4x-3}$.

   a. Evaluate $f(7)$, $f(1)$, $f(10)$ and $f(0)$.

   b. Find the domain of $f(x)$ and the range of $f(x)$.

   c. Find $f(x+h)$.