Answer Key
Lab - 1

Q,

1, Applet constructed.

2,(i) Change the function to $\sin x$
   Edit the value of slider to $1.3$
   The $y$ co-ordinate of B is the value of $\sin(1.3)$
   $\therefore \sin(1.3) = 0.96$     III$^{rly}$ $\cos(.6) = .83$
                                      $\tan(1.3) = 3.6$

3, (i) Change the function to $3^x$
   Edit the value of slider to $1.4$
   The $y$-coordinate of B is the value of $3^{1.4}$
   $\therefore 3^{1.4} = 4.66$
   III$^{rly}$ $4^{1.2} = 5.28$     ,     $2^{2.2} = 4.59$

4, (i) $\sqrt{5} = 2.24$  (change the function to $\sqrt{x}$ and
                          edit the value of $x$ as $5$

   $\sqrt{7} = 2.65$              $\sqrt{10} = 3.16$

5, (a)
   (i) Put $x = 9$ then $\frac{1}{7} = 0.14$

   (ii) Put $x = 21$ then $\frac{1}{19} = 0.05$

   (iii) Put $x = 14$ then $\frac{1}{12} = 0.08$

   (b) The blinking light becomes red
       when $x = 2$, $f(x)$ is not defined