3.3.2.Domain and Range of trigonometric functions

(a) Domain and Range of sinx and cosx.

y = sinx and y = cosx are defined for all real values of x. \therefore Domain of the functions y = sinx and y = cosx is the set R of real numbers.

Also $-1 \le \text{sinx} \le 1$ and $-1 \le \text{cosx} \le 1$.

:. Range of the functions y = sinx and y = cosx is [-1, 1].