TIPS AND TRICKS

INEQUALITY BASED QUESTIONS

- 1. If we need to prove f(x) > g(x) then, take g(x) = f(x) g(x)
- 2. Now, check g(x) is increasing or decreasing.
- 3. Draw rough graph to understand behavior of h(x)
- 4. If h(x) is increasing in (a,b). In (a,b), h(x) < h(b) and h(x) > h(b).

The behavior of the inverse function is the same as its basic function.

Normally to decide Monotonic Behavior in Functions of type u/v, differentiate it.

Take, numerator = h(x), use method of inequality with h(x).