

Figure 1: Capital Stock per worker and Output per worker

- 1. Illustrate how output per worker(y) increases with capital stock per worker(k).
- 2. Is there a relation between growth rate of *capital stock per worker*  $\left(\frac{\Delta k}{k}\right)$  and *output per worker*  $\left(\frac{\Delta y}{y}\right)$ ?
- 3. What happens to the *output per capital stock*  $(\frac{y}{k})$  as *capital stock per worker* (k) increases?

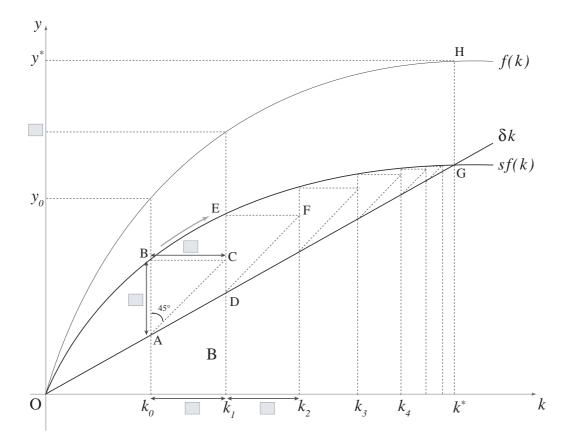


Figure 2: Capital Stock per worker and Output per worker

- 1. Illustrate how *capital stock per worker* increases from  $k_0$  to  $k^*$ .
- 2. Illustrate how *output per worker* increases from  $y_0$  to  $y^*$ .
- 3. Why does *capital stock per worker* not increase beyond  $k^*$ ?
- 4. Draw yourself another diagram and show what would happen if we start from a situation where *capital stock per worker* of the economy is greater than  $k^*$  to start with.