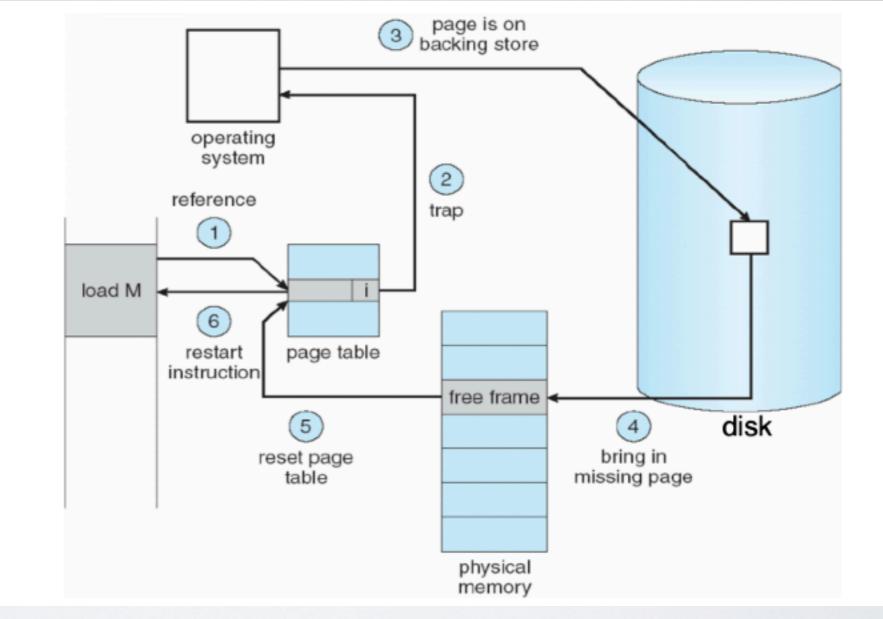
## Page Faults



- 1. When the OS evicts a page, it sets the PTE as invalid and stores the location of the page in the swap file in the PTE
- 2. When a process accesses the page, the invalid PTE causes a trap (page fault)
- 3. The trap will run the OS page fault handler
- 4. Handler uses the invalid PTE to locate page in swap file
- 5. Reads page into a physical frame, updates PTE to point to it
- 6. Restarts process

## There is more to the topic of swapping

→ More on swapping in the next lecture

Mechanisms and policy to evict page from memory