Exercise 1. Prove that if $\dfrac{\pi(x)}{x/\log x} = O(1)$ then $\dfrac{\psi(x)}{x} = O(1)$. If the constant in the first big-oh is made explicit (e.g. as in Theorem 4.6), what can you say about the constant in the second?

Exercise 2. Page 103, #20

Exercise 3. Page 103, #21