Tech ID or Star ID: _____

Do one of the two problems shown below (the second problem is on the back).
<u>Show your work</u> (you will not receive any credit if all you have is a final answer, right or wrong).

(1) The beam is subjected to a shear of V = 15 kN. Determine the shear stress in the web at point A
(point A is located right where the web meets the upper flange). Point B is ignored in this problem.
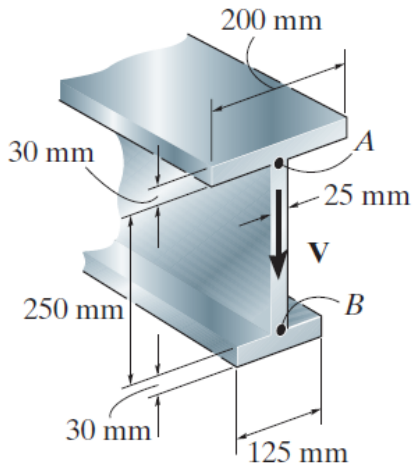
(2) Determine the maximum shear stress in the beam at point C.

10 kN/m

A

B

C

|—— 3 m ——|—— 1.5 m ——|—— 1.5 m ——|

150 mm

150 mm   30 mm

30 mm