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| **تمرینهای استاتیک HW#10** |
| 1. For the beam and loading shown, (*a*) draw the shear and bending-moment diagrams, (*b*) determine the maximum absolute values of the shear and bending moment. |
| 1. For the beam and loading shown, (*a*) write the equations of the shear and bending-moment curves, (*b*) determine the magnitude and location of the maximum bending moment. |
| 1. Two small channel sections *DF* and *EH* have been welded to the uniform beam *AB* of weight *W* 5 3 kN to form the rigid structural member shown. This member is being lifted by two cables attached at *D* and *E*. Knowing that u 5 30° and neglecting the weight of the channel sections, (*a*) draw the shear and bending-moment diagrams for beam *AB*, (*b*) determine the maximum absolute values of the shear and bending moment in the beam. |
| 1. Determine the internal normal force, shear force, and moment at point D. |