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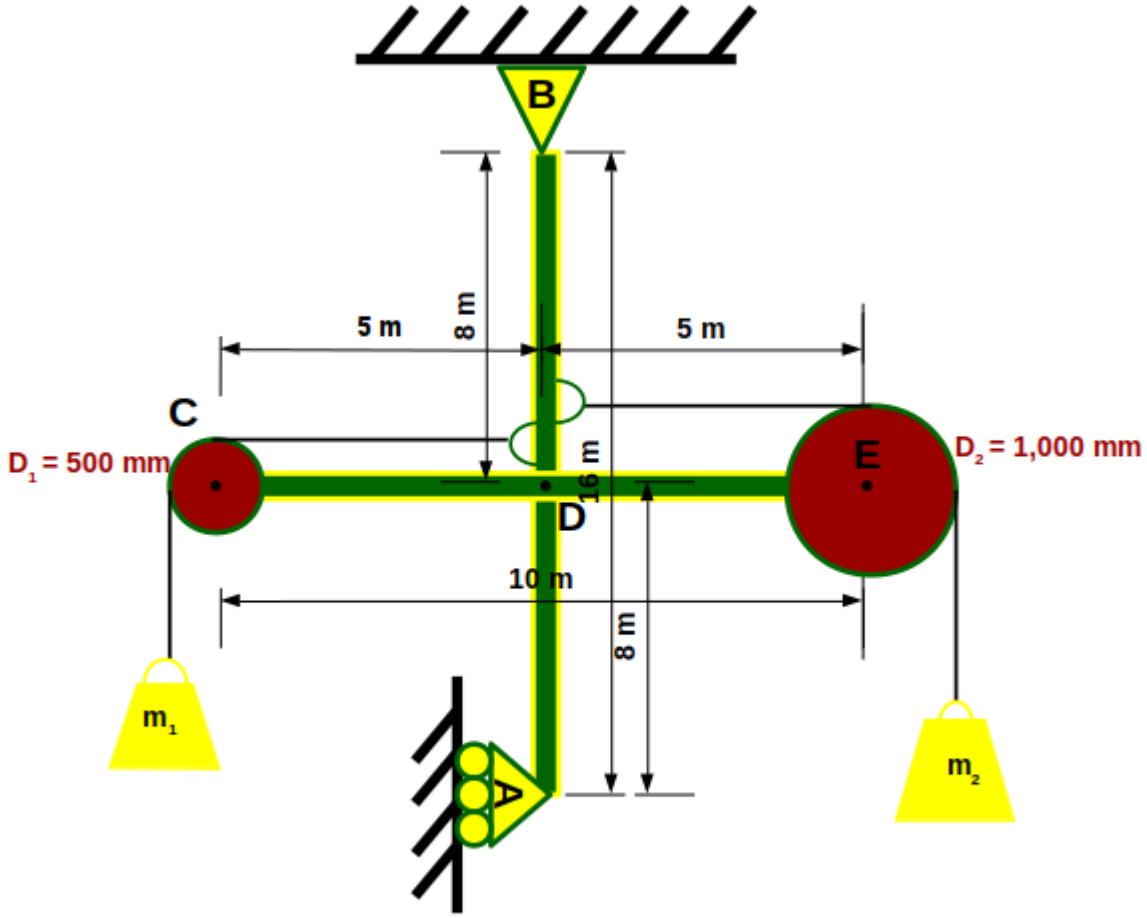
The structure shown below has a roller support at A and is pinned at B and D, consisting of rigid frames and pulleys. Find the reactions at A, B and D for the frames and machines if m1 = 100 kg and m2 = 150 kg.



Answers (refer to solutions for detail)

A_x = 61.3 N→, B_x = 61.3 N←, B_y = 2.45 kN↑, D_x = 491 N→, D_y = 2.45 kN↑