

Homework Problem H8.A

Given: A frame is made of circular-arc-shaped members AC and BC. These members are joined together at C with a pin joint, and are pinned to ground at ends A and B. A load F is applied at joint C, and loads F and P act at point D on member BC.

Find: Determine the reactions on the frame at pins A and B. Write your answers as vectors in terms of their xy components.

For this problem, use the following parameters: $R = 3$ ft, $F = 20$ kips and $P = 50$ kips.

