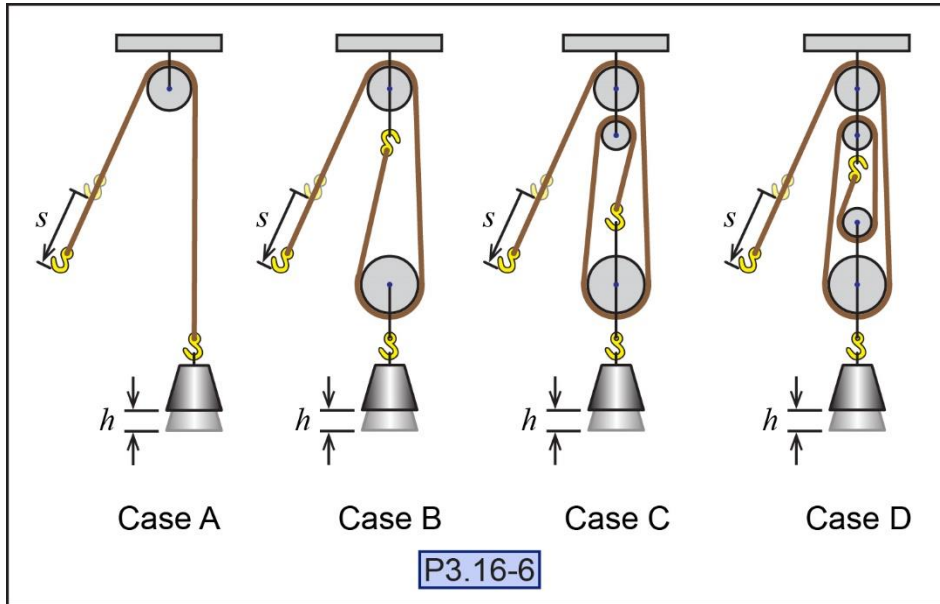


P3.16-6) Consider the different pulley configurations shown in the figure. If the end of the rope is pulled by a distance of s , determine the amount that the weight is lifted up (h) in each case.



Given:

Find:

Solution:

Ropes

Is the rope supporting the weight a single continuous rope? Circle the correct answer.

Yes No

How many parts of the rope are supporting the weight in each case? Circle the correct answers.

Case A: 1 2 3 4

Case B: 1 2 3 4

Case C: 1 2 3 4

Case D: 1 2 3 4

Distance traveled

What is the ratio of c in the equations $h = cs$ in each case? Circle the correct answers.

Case A: 1 1/2 1/3 1/4

Case B: 1 1/2 1/3 1/4

Case C: 1 1/2 1/3 1/4

Case D: 1 1/2 1/3 1/4