

Homework Problem H7.D

Given: Consider the truss shown below with the loading on joints D, K, S and U.

Find: For this problem:

- Identify all zero-force members in the truss.
- Determine the external reactions acting on the truss at supports A and B.
- Determine the load carried by members RS and DS. Identify each member as either being in tension, in compression or carrying zero load.

For this problem, use the following parameters: $h = 1.2$ m, $b = 1.6$ m, $F = 12$ ksi, $P = 36$ ksi and $Q = 24$ ksi.

