Online Homework System
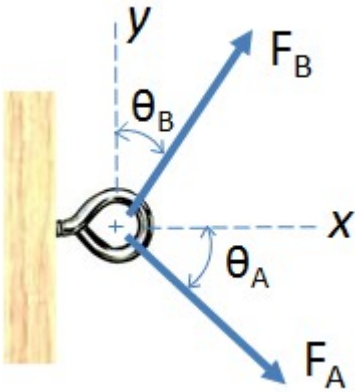
Name: _____

Class #: _____

Instructor: Parker Schnepf

Class:

Section #: _____

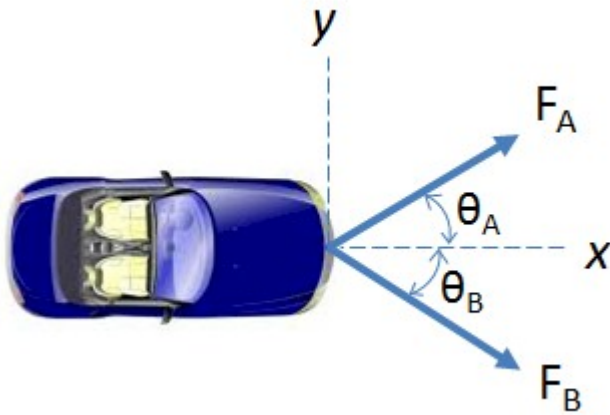**Assignment:** 1.2 Homework Exercises

Question 1: (10 points)

Find the magnitude of the resultant force on the eye bolt and its direction measured *counterlockwise* from the positive x-axis, given:

F_A = 10 N, θ_A = 50 °, F_B = 5 N, θ_B = 35 °

  (ans: F_R = 9.96 N, θ_R = -21 °)

Select problem completion status from drop-down list:

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Question 2: (10 points)

Ropes **F$_A$** and **F$_B$** are used to tow the truck as shown. Find the magnitude of the forces in the ropes if the resultant force is directed along the positive x-axis, given:

  F$_R$ = 925 N, θ $_A$ = 40 °, θ $_B$ = 75 °

  *(ans: **F$_A$** = 986 N, **F$_B$** = 656 N)*

Select problem completion status from drop-down list:

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