

Reflection and Self-Assessment**Part 1:** Circle the statement that best describes how you completed the practice:

- I answered all questions without using the online solutions. I checked my answers against the key at the back of the practice and was able to determine my mistakes and correct them without referring to the online solutions.
- I answered most questions correctly without using the online solutions. I used the online solutions to help me with some questions and was able, with help from the online solutions, to understand every question and answer them correctly.
- I used the online solutions to help me with most of the questions. I was able, with help from the online solutions, to understand each question and answer them correctly.
- Even using the online solutions, I was not able to fully understand the solution to some problems. The questions I had trouble with were:

- I did not attempt all the questions on the practice.

Part 2: Circle the statement that best describes your confidence in answering questions of this type in the future.

- I am confident I can answer nearly any question of this type correctly without using notes or other assistance.
- I am confident I can answer **MOST** questions of this type correctly without using notes or other assistance.
- I am **NOT** confident I can answer most questions of this type correctly without using notes or other assistance.

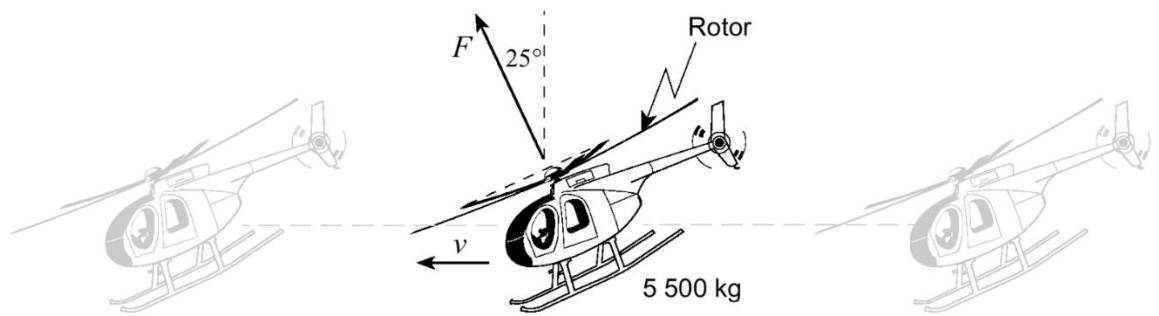
Part 3: Circle the statement below that best describes the total amount of time you spent actively working on this practice:

Less than an hour	Between one and two hours	Between two and three hours	Between three and four hours	More than four hours
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1. A person pulls a 15 kg sled using a rope at an angle of 30.0° above the horizontal with 55 N of force. If the sled moves at a constant velocity horizontally through the snow what is
 - a. The normal force acting between the sled and the snow?
 - b. The coefficient of friction between the snow and the sled?

2.

A 5 500 kg helicopter is travelling at constant speed in level flight.



What is the force F provided by the rotor?

3. A 20.0 kg rocket is launched from Earth aimed 55° above the horizontal. The force output of the rocket engine is 400.0 N. What is the acceleration of the rocket (magnitude and direction)?

ANSWERS

1a) 120 N	1b) 0.40	2) 5.9×10^4 N
3) 13 m/s^2 , 3.0×10^1 degrees above the horizontal.		