

# CALCULUS-BASED PHYSICS-1: MECHANICS (PHYS150-01): WEEK 5

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October 9th - October 13th, 2017

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## WEEK 5 REVIEW

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## 1. Friction

- Normal force and friction
- Static, kinetic

## 2. Drag

- Terminal velocity

## 3. Restoring Forces

- Hooke's Law
- Young's modulus
- Shear modulus
- Bulk modulus

## WEEK 5 REVIEW PROBLEM

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- A:
- B:
- C:
- D:

## WEEK 6 SUMMARY

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1. Angular kinematics
  - Angular displacement
  - Angular velocity
  - centripetal acceleration
2. Newton's Law of Gravity and circular orbits
3. Kepler's Laws

## CONCLUSION

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1. Angular kinematics
  - Angular displacement
  - Angular velocity
  - centripetal acceleration
2. Newton's Law of Gravity and circular orbits
3. Kepler's Laws

## ANSWERS

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