

OSU Academic Integrity Statement

During this quiz you are not to receive information, nor communicate with anyone, about the form, content, length, or difficulty of this quiz. Additionally, you are not to use any unauthorized resources while taking this quiz.

The allowed resources are: any notes you have collected during this course (handwritten, printed, or saved locally on your computer), blank sheets of paper or a digital tablet, writing utensil, a ruler, a protractor, and a non-communicating calculator. **Accessing the internet** while taking the quiz for any reason other than downloading, viewing, or turning in the quiz **is strictly prohibited**.

Receiving information or discussing details about this quiz between the time of its release and a time 48 hours later is strictly prohibited and is in violation of Oregon State University's Code of Student Conduct.

<https://studentlife.oregonstate.edu/studentconduct/academicmisconduct>

Any incidence of academic misconduct will be dealt with in accordance with Oregon State University's policies.

Physics 201

Weekly Quiz 2 | Corvallis Campus

10/7/2020

Collaboration is not allowed. You will have 25 minutes to download, solve, take pictures, AND upload this exam to Gradescope.

1. (a) Brody, the wonder dog, jumps onto a burning building to save UV, the kitty in distress. At one instant during his flight towards the building, Brody's velocity is at an angle of 15 degrees from vertical and the vertical component of his velocity is 10 meters per second. How fast is Brody travelling at this instant? Show your work for full credit.



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- (b) After saving UV, Brody, the wonder dog, goes for a walk. He walks from his starting position to a second location 110 meters away in a direction 30 degrees South of East. He then moves to a third location 200 meters to the North and 400 meters to the West of the second location. When standing in the third location, what is Brody's displacement from his starting position (where he started the walk)? Show your work for full credit.