

Related Rates Sliding Ladder.doc --- calculus

Name _____

A 10-foot ladder is leaning against a wall. The top of the ladder is sliding down the wall at a **constant** rate of 1 foot per second.

How fast is the base of the ladder moving when it is 6 feet from the wall?

You can get a reasonable estimate of the answer without using Calculus. Try it! Watch the video below if you want a hint.

<https://youtu.be/rGRv7YCfKNw>

Can you figure out how to get an exact answer to the problem using Calculus? Watch the video below to find out how.

<https://youtu.be/cTbmQKQtEs>

