



3. A 10 foot ladder is leaning against a wall. If the ladder is sliding down the wall at a rate of 2 ft/sec, at what rate is the base of the ladder sliding along the ground away from the wall when the top of the ladder is 8 feet from the ground?

4. The volume of a spherical balloon is changing at a rate of 3 cubic inches per second. At what rate is the radius changing when the radius is 4 inches?