Law of Conservation of Energy

Example 1:

Quinton is going skydiving. He jumps from 2.0 km above the Earth. What is his velocity when he is 0.5km above the Earth?

Example 2: (A Classic Good one!)

1. A skier (m=60kg) starts at the top of a hill that is 650m high. What is his speed at the bottom assuming no friction. The angle of the hill is 200.
2. The skier then continues up a second hill and stops at a height of 550m the angle is 20o. What was the work done by friction. (ie: Friction is included in this question!)
3. What is the coefficient of friction?