Two racers compete in a 1400 m race. The first 700 m of the race is uphill, and the second 700 m is down the same hill along the same path. Each racer’s constant uphill speed is half of their respective constant downhill speed.

The faster racer reaches the top of the hill and immediately starts running downhill. The faster racer then meets the slower racer (still going uphill) 70 m from the top of the hill.

When the faster racer finishes the race, how far is the slower racer from the finish line?