

Sample Parallel and Perpendicular Components of Motion Problems

1. A landscaper is doing some lawn work when a 2 kg tire escapes from his wheelbarrow and begins rolling down a steep 30° incline in San Francisco. What is the parallel component to the weight vector?
2. A landscaper is doing some lawn work when a 2 kg tire escapes from his wheelbarrow and begins rolling down a steep 30° incline in San Francisco. What is the perpendicular component to the weight vector?
3. A landscaper is doing some lawn work when a 40 N tire escapes from his wheelbarrow and begins rolling down a steep 30° incline in San Francisco. What is the perpendicular component to the weight vector?