

Take-home Quiz – Projectiles launched horizontally

Directions: Show all work with diagrams.

NO WORK = NO GRADE

1. A prop plane traveling 218m above the horizontal loses its tire. The tire travels 41m horizontally before it hits the ground. What was the tire's initial velocity?
2. A tire rolled off a cliff with an initial velocity of 23m/s. If it took the tire 4.7s to reach the ground, how tall was the cliff? How far away from the base of the cliff did the tire strike?