The Red Bull Rampage

Name:

Date:

Each year, thrill-seeking mountain bikers launch themselves off cliffs in the desert of Southwest Utah at an event called the Red Bull Rampage. The winners are those who can perform the biggest flips, tricks, and drops. The photograph below caught a rider in mid-air:

Questions:

- How could we figure out the velocity of the rider the instant this photograph was taken? What information would you need? How would you use this information to come up with the solution?

- What other mathematical questions could we ask about this photograph?