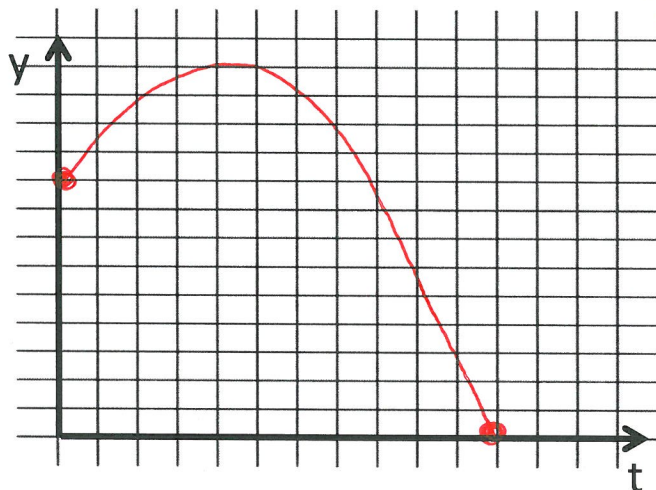


Quiz 1C (Pink Solutions): Motion

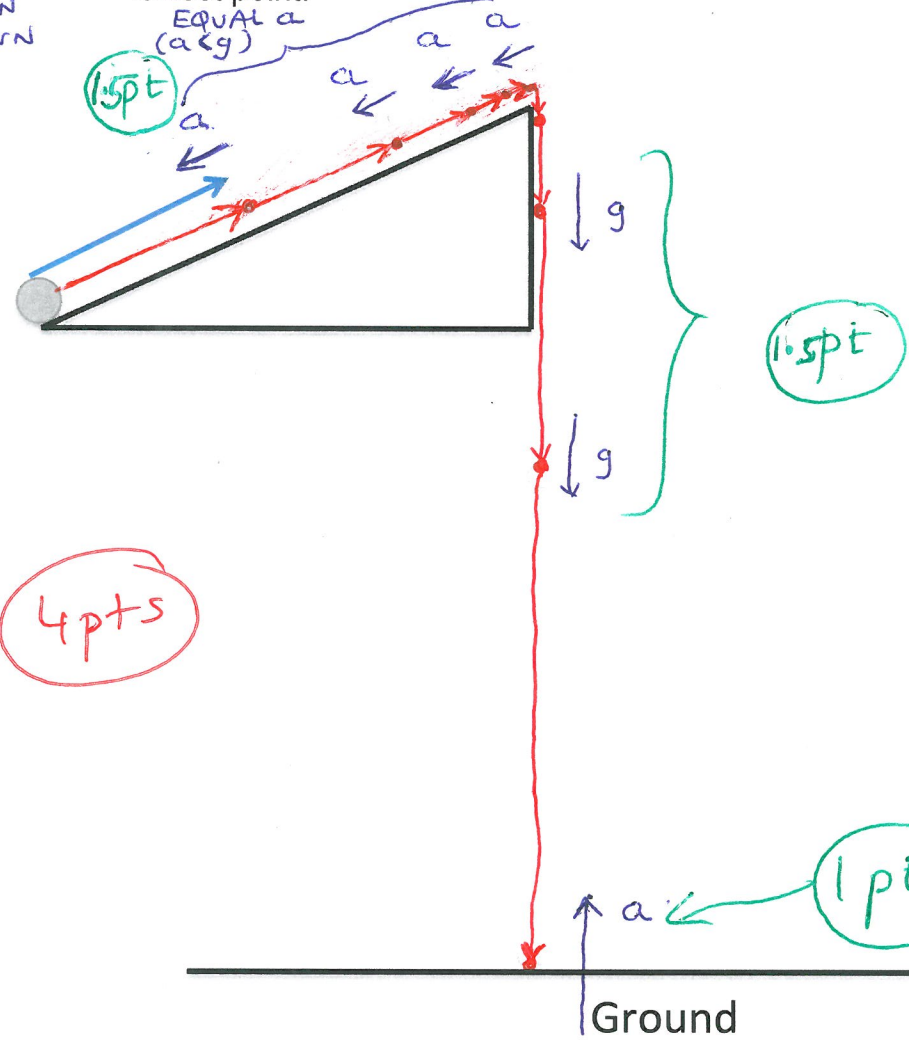
1 Throw ball in air. Plot position vs time.

3pts



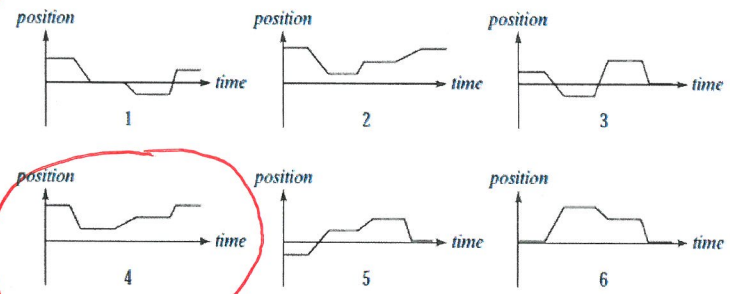
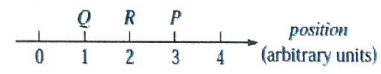
THROW BALL UPWARD FROM A HIGH-UP POINT, CATCH AT A POINT LOWER DOWN WHEN BALL IS ON WAY DOWN

3 You launch a ball with some initial velocity up a ramp. The ball slows down, barely making it to the top of the ramp, then falls off, hits the ground below and rebounds. Draw a complete motion diagram of the ball from the time it is released until it hits the ground. Be sure to determine and show the acceleration at the lowest point!



2 A person initially at point P in the illustration stays there a moment and then moves along the axis to Q and stays there for a moment. She then strolls slowly to R, stays there a moment, and then runs quickly back to P. Which of the position vs. time graphs below correctly represents this motion?

3pts



4pts

1.5pt

1pt