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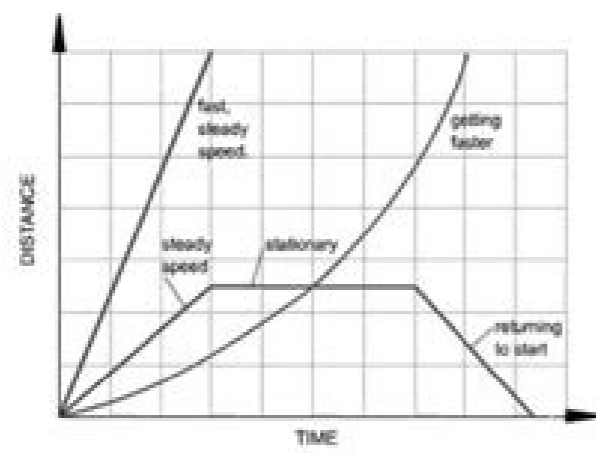
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Name _____ Date _____ Period _____

Worksheet: Interpreting Graphs

CHAPTER 4: LINEAR MOTION

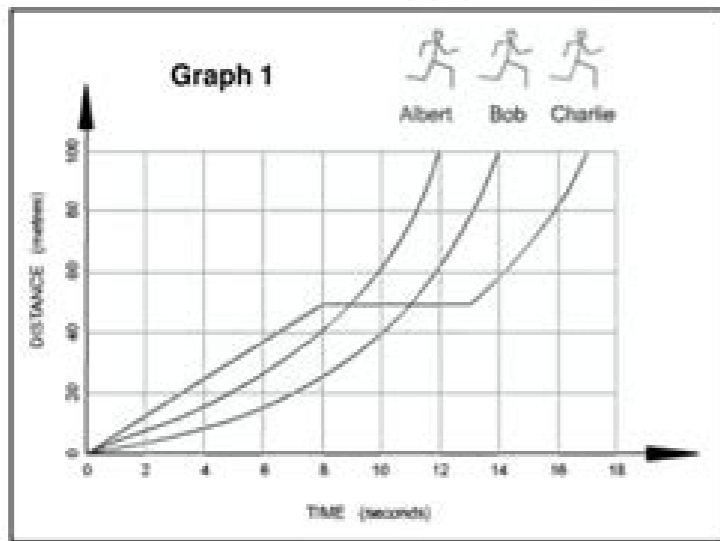
INTERPRETING GRAPHS- As I have said many times in class, "a picture is worth a thousand words". In physics, a graph is "worth a thousand numbers". A great deal of information can be obtained by looking and interpreting graphs describing motion (displacement, speed, velocity, and acceleration).



Distance vs. Time Graphs- To the right is a typical graph displaying Distance vs. Time. One or more objects may be graphed at one time, so you can compare the relative positions, speeds and displacement as they relate to each other.

Directions: Answer the following questions as they apply to the Motions graphs and diagrams.

Graph 1: Questions 1-7



1. What does the slope of each line on the graph tell you?
2. Which runner completed the 100m race in the least amount of time? What was his time?
3. Which runner started out the fastest?
4. What was Charlie doing between 8 seconds and 10.5 seconds?
5. What does a straight line on this graph tell you? A curved line?
6. At what distance and time did Albert overtake Bob?
7. What was the total displacement of all three runners (Δd)?

Name _____ Class _____ Date _____

Distance and Displacement Practice

d – distance: the total amount of ground covered
 Δd – displacement: the change in position $\Delta d = x_f - x_i$

Answer the following questions. Show your work.

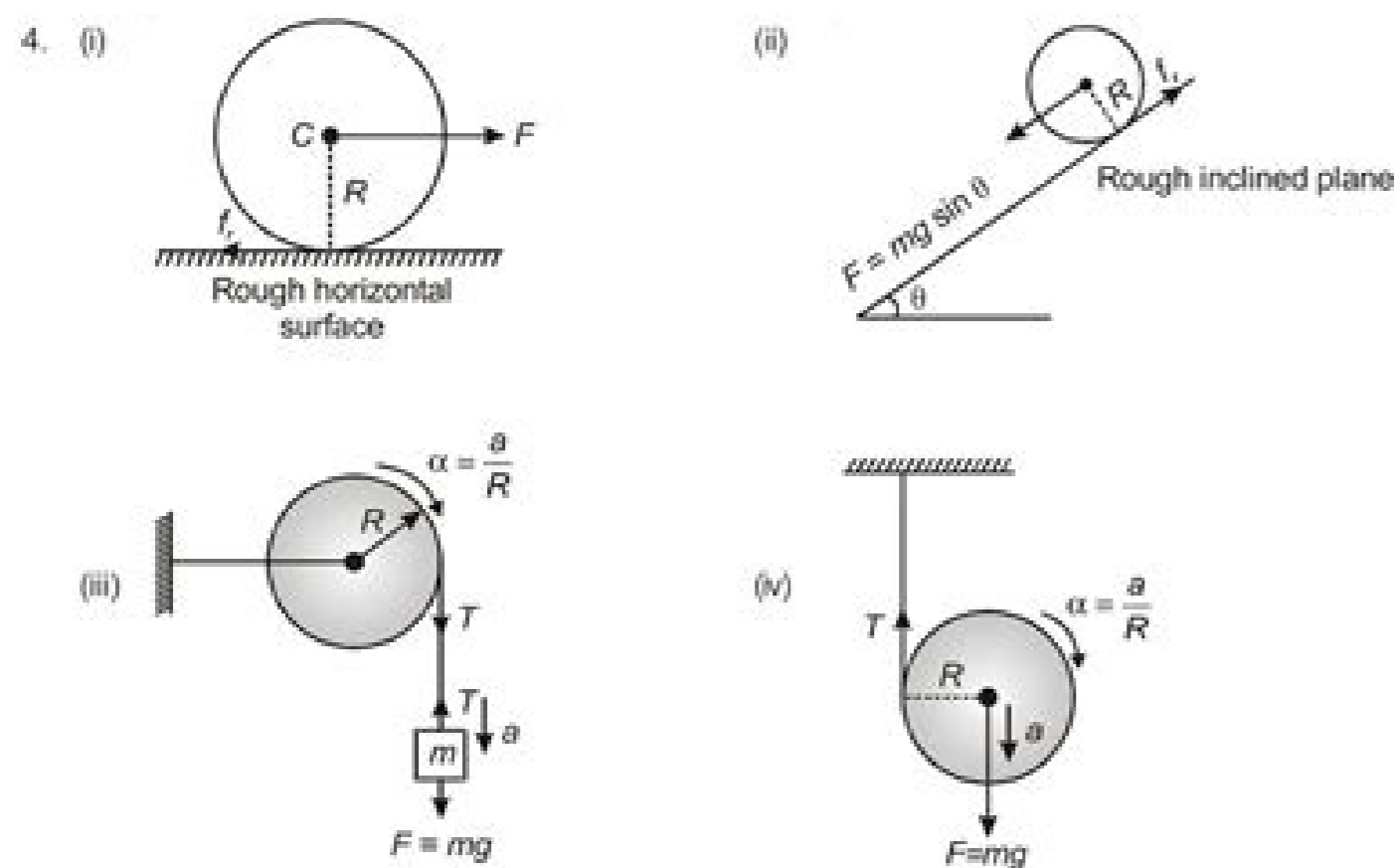
- 1) Aaron from the front door to the mailbox at the end of his driveway. What is Aaron's displacement? Distance traveled?
 (Hint: Displacement has a direction)
- 2) Aaron, from question 1, turns to walk back to the house. Halfway up the driveway he gets a text and stops to check his phone. From the front door to his current position, what is Aaron's displacement? Distance traveled?
- 3) Aaron finishes on his phone and returns to the front door. What is Aaron's net displacement? His total distance traveled?
- 4) A duck wanders halfway around a perfectly circular pond. The radius of the pond is 3.5 m. What is the displacement of the duck? (Hint: Drawing a picture may help)
- 5) What is the distance traveled by the duck from problem 4?
- 6) Emily runs the 800 m race for the school's track team. She completes two laps of the track and comes in 1st place with a time of 2 minutes and 22 seconds. What is Emily's displacement? Her distance traveled?

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3. If force is applied at highest point ($h = R$)

$$a_{cm} = \frac{2F}{M \left(1 + \frac{K^2}{R^2} \right)}$$

$$f = \left(\frac{R^2 - K^2}{K^2 + R^2} \right) F, \text{ forward direction}$$



For all the four situations shown above,

$$a = \frac{F}{m + \frac{I_{cm}}{R^2}}$$

$$f, \text{ or } T = \frac{I_{cm} a}{R^2}$$

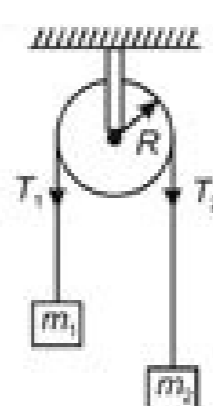
In the situations described above, the linear acceleration of the moving object can be calculated by same formula, the value of F , and moment of inertia will depend on the kind of problem.

Also consider the following situation.

$$a = \frac{F}{(m_1 + m_2) + \frac{I}{R^2}}$$

$$T_2 - T_1 = \frac{I a}{R^2}$$

Here, $F = (m_2 - m_1) g =$ Net pulling force



RECTILINEAR MOTION

MECHANICS

Mechanics is the branch of physics which deals with the cause and effects of motion of a particle, rigid objects and deformable bodies etc. Mechanics is classified under two streams namely **Kinematics** and **Dynamics**.

Mechanics

Kinematics

The word kinematics means 'science of motion'. branch of mechanics which deals with study of motion without going into the cause of motion, i.e. force, torque etc.

Dynamics (or Kinetics)

It is branch of mechanics which is concerned about the causes (i.e. the force, torque) that cause motion of bodies.

1. MOTION AND REST

Motion is a combined property of the object and the observer. There is no meaning of rest or motion without the observer. Nothing is in absolute rest or in absolute motion. An object is said to be in motion with respect to an observer, if its position changes with respect to that observer. It may happen by both ways either observer moves or object moves.

2. RECTILINEAR MOTION

Rectilinear motion is motion, along a straight line or in one dimension. It deals with the kinematics of a particle in one dimension.

2.1 Position

The position of a particle refers to its location in the space at a certain moment of time. It is concerned with the question – "where is the particle at a particular moment of time?"

2.2 Displacement

The change in the position of a moving object is known as displacement. It is the vector joining the initial position of the particle to its final position during an interval of time.

2.3 Distance

The length of the actual path travelled by a particle during a given time interval is called as distance. The distance travelled is a scalar quantity which is quite different from displacement. In general, the distance travelled between two points may not be equal to the magnitude of the displacement between the same points.

Example 1. Ram takes path 1 (straight line) to go from P to Q and Shyam takes path 2 (semicircle).

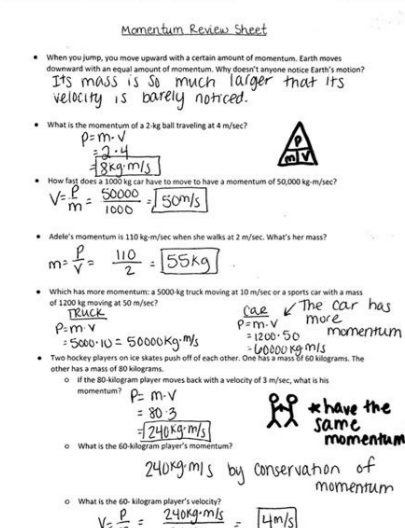
- (a) Find the distance travelled by Ram and Shyam?
(b) Find the displacement of Ram and Shyam?

- Sol.** (a) Distance travelled by Ram = 100 m
Distance travelled by Shyam = $\pi(50\text{ m}) = 50\pi\text{ m}$
(b) Displacement of Ram = 100 m
Displacement of Shyam = 100 m



2.4 Average Velocity (in an interval):

The average velocity of a moving particle over a certain time interval is defined as the displacement divided by the elapsed time.



Linear motion worksheet. Linear motion worksheet pdf. Linear motion worksheet with answers.

Courses may feature videos, online textbooks, transcripts from lectures and assignments that were given to students who took the class in the past. Photo Courtesy: John Phelan/Wikimedia Commons MORE FROM QUESTIONSANSWERED.NET At the top of the swing, potential energy is at maximum, and that energy is converted to kinetic energy as it falls and is driven back up the other side. Frequency equals one divided by the period. An oscillation can be a periodic motion that repeats itself in a regular cycle, such as a sine wave—a wave with perpetual motion as in the side-to-side swing of a pendulum, or the up-and-down motion of a spring with a weight. Thanks to technology, however, all you need is a computer with an internet connection, and you can learn practically everything there is to know about even the most challenging topics. When Amanda Kloots auditioned in 2003, she knew she wanted to do exactly what Rockettes have done for decades: "I don't think you would make it in the line if you didn't," she says.4. Those old legs have legs. Every show features a Parade of the Wooden Soldiers, where Santa fires a cannon and Rockettes fall like dominoes. Today, MIT OpenCourseWare has thousands of courses available on its site, including a sizable section on physics. It is also known as periodic motion. Each of them comes with a helpful summary of the subjects discussed. Photo Courtesy: @physorg.com/Twitter EdXFounded in 2012, EdX is an online learning website founded by experts at MIT and Harvard. His 221 musicians, stagehands, actors, animal handlers, and other staff stay as tightly connected as a kick line. The goal is to provide university-level educational opportunities to everyone around the world. In this unit, you will learn many interesting facts about forces, motion, and energy. "Oscillations and Waves: An Introduction," 2nd ed. Lab: Dominoes and Velocity Lab: Introduction to Forces Lab: Newton's First Law Lab: Frictional Forces Lab: Motion and Forces Lab: Free Fall and Air Resistance Lab: Reaction Time Textbook Resources: Conceptual Physics Paul Hewitt Hewitt Drew-It Get Kahoot and create your own review games! Get a Quizlet account and begin making your own review games Videos: John F. Doing 200 shows in two months, Bonanni says, means "having management being physically there is of utmost importance." He or one of his deputies attends every rehearsal so problems are solved quickly.3. Check your eyes at the door. Since 1933, the dancers with the syncopated kicks have drawn millions to the "Christmas Spectacular" in the shadow of New York's glitziest fir tree. An oscillator is a device that exhibits motion around an equilibrium point. There's also a review section for the AP Physics Exam if you're a high school student. MIT OpenCourseWareIn 2001, MIT announced that it would make all of its undergraduate and graduate course material available online for anyone to use as an educational resource. An example is a weight attached to a spring. You'll find games, ideas for experiments, links to other vetted online resources, information on careers in physics and advice for studying the field. Mechanics is the branch of physics that deals with the effects of forces and energy in a given situation. For example, you predict where obstacles will be at later times. In some cases, the courses can even help you earn degrees and certificates. Each January, Bonanni and his deputies review the show and add dance bits or script updates. Says Meg Huggins, in her eighth year as a Rockette: "Nobody plays diva backstage."2. Photo Courtesy: @khanacademy/Twitter For physics, you can also select from a list of topics, including one and two-dimensional motion; torque and angular momentum; and electric charge, field and potential to tackle. Thank you very much for your cooperation. For the 80 Rockettes, the Spectacular is a six-show-a-day pinnacle to a lifetime of training. A constant force or a restoring force acts on the object to produce the oscillating motion. There are plenty of great dancers, but only a few are cut out to be Rockettes. This is the point in the pendulum swing when it's in a vertical position. Inference Lab: How is a Controlled Experiment Performed? As many as 60% of the Rockettes have danced in prior seasons. Photo Courtesy: Tra Nguyen/Unsplash Once upon a time, if you wanted to learn about a topic like physics, you had to either take a course or read a book and attempt to navigate it yourself. An oscillating system is an object that moves back and forth, repeatedly returning to its initial state after a period of time. Many schools and other organizations offer free or inexpensive classes on various topics online, and physics is one of the most popular areas of study. Modern timepieces use the vibrations of quartz and electronic oscillators, rather than the movement of pendulums. You estimate how much force it will take to move an object. Boca Raton: CRC Press, 2019. Mittal, P.K. "Oscillations, Waves and Acoustics." New Delhi, India: I.K. International Publishing House, 2010. Bonanni, 54, says cliques have no place in the Spectacular culture. In order to continue enjoying our site, we ask that you confirm your identity as a human. Every time you catch a ball, ride a bike, or lift a bag, you are using physics to make predictions without realizing it. When it's released, it gains momentum (kinetic energy) and keeps moving beyond the equilibrium point, gaining potential energy (restoring force) that will drive it in oscillating down again. Frequency is measured in Hertz, or cycles per second. You prevent objects from rolling away or tipping over. The motion of a simple harmonic oscillating system—when the restoring force is directly proportional to that of the displacement and acts in the direction opposite to that of displacement—can be described using sine and cosine functions. Each course is 100 percent online, and most feature videos, discussion boards, homework assignments, lectures and more. Those veterans help newcomers with "Rockette style" — where to hold your hands, for example — and with keeping up their stamina. If a pendulum starts on the right and takes one second to travel all the way to the left and another second to return to the right, its period is two seconds. At the equilibrium point, no net forces are acting on the object. Courses include Physics I: Classical Mechanics, String Theory for Undergraduates, Introduction to Neural Networks and Astrophysics II, among dozens of others. From the Massachusetts Institute of Technology (MIT) to Khan Academy, there are several places where you can learn physics on your own time and at your own pace, all without ever leaving your home. CourseraCoursera offers thousands of classes taught by top instructors from universities and companies around the world. A pendulum will lose energy over time to friction if the clock isn't corrected by a spring. Like Coursera, it offers free and paid classes on thousands of topics taught by university professors, nonprofit professionals and business experts from some of the top organizations in the world. Under the "Explore" section of the website, you'll find free lectures, online courses and educational materials. Everyone puts in the hours. Rotary motion can be changed to oscillating motion by the same method. Oscillation refers to the repeated back and forth movement of something between two positions or states. Period is usually measured in seconds. Now again at the top, kinetic energy has dropped to zero, and potential energy is high again, powering the return swing. You can start from the beginning with Introduction to Physics and work your way through every topic or pick the ones that interest you most. A subject like physics could be particularly challenging without any outside source of guidance. For executive producer John Bonanni, it's the fruit of a formula he and his team tend to all year.1. Unison builds unity. Fitzpatrick, Richard. It's the difference between flash and sync. The frequency of the swing is translated via gears to mark time. Amplitude is the maximum displacement from the equilibrium point. But key sequences never change. Her first year, "a dance captain would stay after rehearsals with me for an hour, two hours," says Kloots.5. Let tradition stand (and fall). (Prentice Hall Conceptual Physics-Paul Hewitt) Syllabus (Conceptual Physics) Safety Contract CUSD Student Handbook Chapter 1 Student Notes (About Physics) Chapter 2 Student Notes (Mechanical Equilibrium) Chapter 3 Student Notes (Newton's First Law) Chapter 4 Student Notes (Linear Motion) Chapter 1 PowerPoint Lecture (About Physics) Chapter 2 PowerPoint Lecture (Mechanical Equilibrium) Chapter 3 PowerPoint Lecture (Newton's First Law) Chapter 4 PowerPoint Lecture (Linear Motion) Practice Quiz: Chapter 1 & 2 Practice Quiz: Chapter 3 Practice Quiz: Chapter 4 Worksheets: Worksheet: Chapter 1 & 2 Review Worksheet: Chapter 2 Equation Review Worksheet: Linear Motion Word Problems Worksheet: Practice Quiz-Linear Motion Worksheet: Free Fall Word Problems Worksheet: Practice Quiz-Free Fall Worksheet: Chapter 1 Defining Terms Worksheet: Chapter 2 Defining Terms Worksheet: Chapter 3 Defining Terms Worksheet: Chapter 4 Defining Terms Labs and Classroom Activities: Lab: The "Black Box" Lab: Evidence vs. Content is geared toward specific age groups, such as elementary or high school students. A single oscillation is a complete movement, whether up and down or side to side, over a period of time. Photo Courtesy: @edXonline/Twitter The site offers many self-paced and instructor-led physics courses, ranging from general courses, like Question Everything: Scientific Thinking in Real Life, to more specialized topics Introductory Electricity and Magnetism. In a pendulum clock, there is a change from potential energy to kinetic energy with each swing. Classes are available in multiple languages. Khan AcademyKhan Academy is a nonprofit organization that offers free instructional videos, exercises and more in a number of topics, including physics. When the weight is at rest, it's in equilibrium. If the weight is drawn down, there's a net restoring force on the mass (potential energy). Frequency is the number of cycles per unit of time. Photo Courtesy: @coursera/Twitter Physics courses are available from institutions like Stanford University, University of Virginia, University of Geneva, University of Maryland and University of Tokyo. When you search for physics courses on the site, you can sort them by language, skill level, duration and more. Physics.orgPhysics.org is managed by the U.K.-based Physics Institute, and it's your source for all things physics. Kennedy "Landing a man on the Moon" – May 25, 1961 First Moon Landing 1969 TedEd: What's the difference between a scientific law and theory? (video worksheet) TedEd: 5 tips to improve your critical thinking (video worksheet) Bozeman: The Scientific Method (video worksheet) Bozeman: Speed, Velocity, and Acceleration (video worksheet) TedEd: How fast are you moving right now? (video worksheet) TOP 10 FASTEST ANIMALS World Record 83 G Deceleration Peak on Rocket Sled Felix Baumgartner's supersonic freefall from 128k' Links While other teams slip into the self-fulfilling mantra that "nothing ever happens around the holidays," the Radio City Rockettes are delivering. An oscillating movement occurs around an equilibrium point or mean value. It can be translated into a rotary motion (turning around in a circle) by a peg-and-slot. If a pendulum swings one centimeter from the equilibrium point before beginning its return journey, the amplitude of oscillation is one centimeter. An oscillating motion in a mechanical system is swinging side to side. Period is the time it takes for a complete round trip by the object, returning to its initial position.

Explanation: It does not matter whether the collision is elastic or inelastic (although it would be best to assume that it's inelastic). Momentum is conserved in either type of collision, and is the only value needed for our calculation. Gain an understanding of Newton's Laws by experimenting with a cart (on which up to three fans are placed) on a linear track. The cart has a mass, as does each fan. The fans exert a constant force when switched on, and the direction of the fans can be altered as the position, velocity, and acceleration of the cart are measured. Eighth Grade (Grade 8) Physics questions for your custom printable tests and worksheets. In a hurry? Browse our pre-made printable worksheets library with a variety of activities and quizzes for all K-12 levels. ... linear quantity ... Newton's 1st Law of Motion Newton's 3rd Law of Motion Newton's 2nd Law of Motion ... Figure 1. a car of mass m_1 moving with a velocity of v_1 bumps into another car of mass m_2 and velocity v_2 that it is following. As a result, the first car slows down to a velocity of v_1' and the second speeds up to a velocity of v_2' . The momentum of each car is changed, but the total momentum of the two cars is the same before and after the collision (if you assume ... Kids learn about the color rendering index by finding the best lightning for makeup in this fun and original physics science fair project idea. Science. Science Project ... The goal of this science fair project is to attempt to build a perpetual motion machine and analyze the Laws of Thermodynamics. ... We offer free science fair ideas suitable ... Teach your young students about force and motion with this easy-to-read lesson plan. Students learn what force and motion are and about their relationship, then apply concepts to a game. Gain an understanding of Newton's Laws by experimenting with a cart (on which up to three fans are placed) on a linear track. The cart has a mass, as does each fan. The fans exert a constant force when switched on, and the direction of the fans can be altered as the position, velocity, and acceleration of the cart are measured. 7-49 solving linear equations, 7 DIMENSION QUADRATIC EQUATION, giovanni.ppt "online graphing calculator" integrals, free college algebra worksheets, gcf and lcm calc, learn algebra online free, Calculat download speed in c#, elementary worksheet median, equations with multiple variables, Projectile motion Worksheet, Chapter 5: Laws of motion This chapter is about Newton's Laws of Motion, Frictional forces, Static & kinetic Friction, Impulse & Linear momentum and Laws of Conservation of Momentum Newton's Law of Motion, Newton's Laws of Motion; Newton's First Law of Motion; Inertia and Mass; Newton's second law of motion AP Physics 1 Help » Newtonian Mechanics » Linear Motion and Momentum » Impulse and Momentum Example Question #1 : Impulse And Momentum In a billiards game, one player hits the cue ball towards another ball. 31/10/2021 · Quiz & Worksheet - Motion and Acceleration in Ticker Tape Diagrams ... AP Physics C: Linear Momentum; AP Physics C: Rotational Motion; Latest Courses: TEEX Science of Teaching Reading (293 ...

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