Name:		Class:	Date:	ID: A
Ch3M	[id]	YrReview		
		3.1 Conceptual Questions		
Ţ <u></u>	1)	If the velocity of an object is zero at some p A) True B) False	oint, then its acceleration must also be	e zero at that point.
	2)	 Which of the following situations is <i>imposs</i>: A) An object has velocity directed east and B) An object has velocity directed east and C) An object has zero velocity but non-zero D) An object has constant non-zero accele E) An object has constant non-zero velocity 	acceleration directed west. I acceleration directed east. o acceleration. ration and changing velocity.	
	3)		-	
	4)	If the velocity of an object is zero, then that A) True B) False	object cannot be accelerating.	
	5)	Suppose that a car traveling to the west beg the following statements about its accelerat A) The acceleration is toward the east. B) Since the car is slowing down, its acceleration is zero. D) The acceleration is toward the west.	ion is correct?	affic light. Which of
:	6)	0 11 1 1 11 11 11 11 11 11 11 11 11 11 1	eration must be correct?	pproaches a traffic
-	7)	Suppose that a car traveling to the west (-x light. Which statement concerning its accel A) Its acceleration is positive. B) Its acceleration is negative. C) Its acceleration is zero. D) Its acceleration is decreasing in magnitude.	direction) begins to slow down as it a eration must be correct? Tude as the car slows down.	
	8)	 Suppose that an object is moving with a confidence acceleration must be correct? A) The acceleration is constantly increasing. B) The acceleration is constantly decreasing. C) The acceleration is a constant non-zero. D) The acceleration is equal to zero. 	ng. ng.	eerning its

- A) zero
- B) slightly less than g
- C) exactly g
- D) slightly greater than g
- 13) A ball is thrown straight up, reaches a maximum height, then falls to its initial height. Which of the following statements about the direction of the velocity and acceleration of the ball as it is *going up* is correct?
 - A) Both its velocity and its acceleration point upward.
 - B) Its velocity points upward and its acceleration points downward.
 - C) Its velocity points downward and its acceleration points upward.
 - D) Both its velocity and its acceleration points downward.
 - 14) A 10-kg rock and 20-kg rock are dropped from the same height and experience no significant air resistance. If it takes the 20-kg rock a time *T* to reach the ground, what time will it take the 10-kg rock to reach the ground?
 - A) 4T
 - B) 2*T*
 - C) *T*
 - D) T/2
 - E) T/4

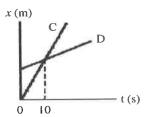
B) velocity.C) acceleration.D) displacement.

B) velocity.C) acceleration.D) displacement.

A) the distance traveled.

The slope of a velocity versus time graph gives

20) The figure shows a graph of the position x of two cars, C and D, as a function of time t.



According to this graph, which statements about these cars must be true? (There could be more than one correct choice.)

- A) The magnitude of the acceleration of car C is greater than the magnitude of the acceleration of car D.
- B) The magnitude of the acceleration of car C is less than the magnitude of the acceleration of car D.
- C) At time t = 10 s, both cars have the same velocity.
- D) Both cars have the same acceleration.
- E) The cars meet at time t = 10 s.

Ch3MidYrReview Answer Section

1)	ANS:	В	PTS:	1	REF:	Var: 1
2)	ANS:	E	PTS:	1	REF:	Var: 1
3)	ANS:	В	PTS:	1	REF:	Var: 1
4)	ANS:	В	PTS:	1	REF:	Var: 1
5)	ANS:	Α	PTS:	1	REF:	Var: 1
6)	ANS:	В	PTS:	1	REF:	Var: 1
7)	ANS:	Α	PTS:	1	REF:	Var: 1
8)	ANS:	D	PTS:	1	REF:	Var: 1
9)	ANS:	A, B, C	PTS:	1	REF:	Var: 1
10)	ANS:	В	PTS:	1	REF:	Var: 1
11)	ANS:	D	PTS:	1	REF:	Var: 1
12)	ANS:	C	PTS:	1	REF:	Var: 1
13)	ANS:	В	PTS:	1	REF:	Var: 1
14)	ANS:	C	PTS:	1	REF:	Var: 1
15)	ANS:	Α	PTS:	1	REF:	Var: 1
16)	ANS:	C	PTS:	1	REF:	Var: 1
17)	ANS:	C	PTS:	1	REF:	Var: 1
	ANS:		PTS:	1	REF:	Var: 1
,	ANS:		PTS:	1	REF:	Var: 1
	ANS:		PTS:	1	REF:	Var: 1