have the same

## 29 Matching questions

1. What does t represent in particle motion?	a Iv(t)I
2. Nhen the acceleration of a particle is negative,	<b>b</b> position of a particle
what does that mean for the particle's velocity?	t=0 time is zero
3. What equation(s) represent velocity?	Integral of the absolute value of v(t) dit.
4. When is a particle moving to the right?  Positively SV(4) >0	e x-axis  v(t) is increasing when a(t) is positive.
5. When the acceleration of a particle is positive,	v(t) is increasing when a(t) is positive.
what does that mean for the particle's velocity? $a(t) > 0 \rightarrow V(t)$ inc	y(t) x'(t) integral (a(t)) dt
6. Particle motion generally happens along which straight line?	h A particle moves to the right when v(t) is positive.
	A particle is moving to the right when velocity is positive.
7. Z When is the speed of a particle decreasing?  a(t) + v(t) have different signs	A particle is moving to the left when velocity is negative.
8. What equation(s) represents position?	k
9. When velocity and acceleration have the opposite	How fast the position of the particle is changing AND in what direction.
sign, what does that mean for the speed of a particle?  Speed dec (diff signs)	v(t) is decreasing when a(t) is negative.
10. S When velocity and acceleration have the same sign, what does that mean for the speed of a particle?	<b>m</b> A particle moves to the left when v(t) is negative.
Speed inc (same signs)	n x(t) or s(t) integral (v(t)) dt
11. j When velocity is negative, what direction is a particle moving?	In <del>tegral (integral (a(t)) dt) d</del> t
<b>~</b>	• A particle changes direction when velocity changes sign.
12. When velocity is positive, what direction is a particle moving?	p velocity of a particle
	<b>q</b> time
What does a(t) determine?  acceleration - how fast  velously  charges  14. b What does x(t) represent?  position of particle	
14. 6 What does x(t) represent?	Speed is increasing when velocity and acceleration have the same sign.
	Speed is increasing.

