

GRAPHS OF MOTION COMPARED

	displacement–time	velocity–time	acceleration–time
“y” intercept			
slope of tangent			
positive slope			
negative slope			
zero slope			
straight			
curved			
area under curve			
curves coincide			
stopped when...			
uniform acceleration			

GRAPHS OF MOTION COMPARED

	displacement–time	velocity–time	acceleration-time
“y” intercept	initial displacement	initial velocity	initial acceleration
slope of tangent	instantaneous velocity	instantaneous acceleration	–
positive slope	motion in positive direction	velocity in positive direction	acceleration in positive direction
negative slope	motion in negative direction	velocity in negative direction	acceleration in negative direction
zero slope	stationary, at rest, not moving	constant velocity	constant acceleration
straight	constant velocity	constant acceleration	–
curved	changing velocity	changing acceleration	–
area under curve	–	[change in] displacement	[change in] velocity
curves coincide	objects have same displacement	objects have same velocity	objects have same acceleration
stopped when...	horizontal	crosses t -axis	area = – (initial velocity)
uniform acceleration	parabolic	straight	horizontal