

## 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	increasing [positive] velocity	increasing [positive] acceleration
negative slope	motion in negative direction	decreasing [positive] velocity	decreasing [positive] acceleration
zero slope	stationary, at rest, not moving	constant velocity	constant acceleration
straight	uniform velocity	uniform acceleration	–
curved	non-uniform velocity	non-uniform 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