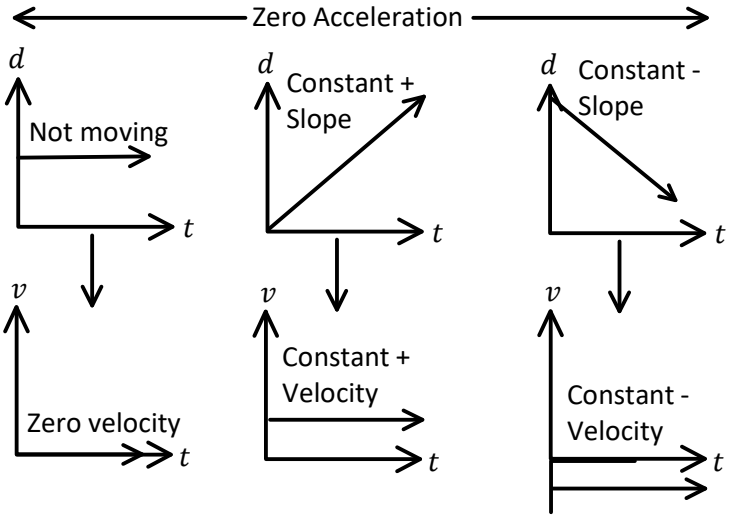
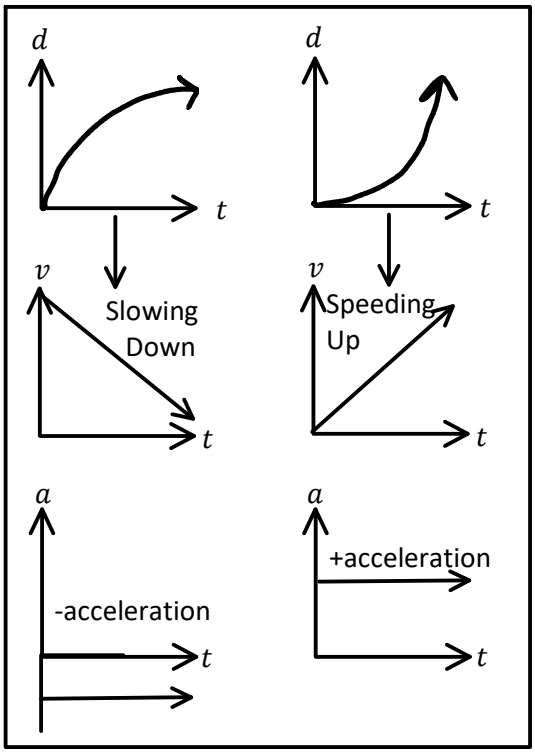
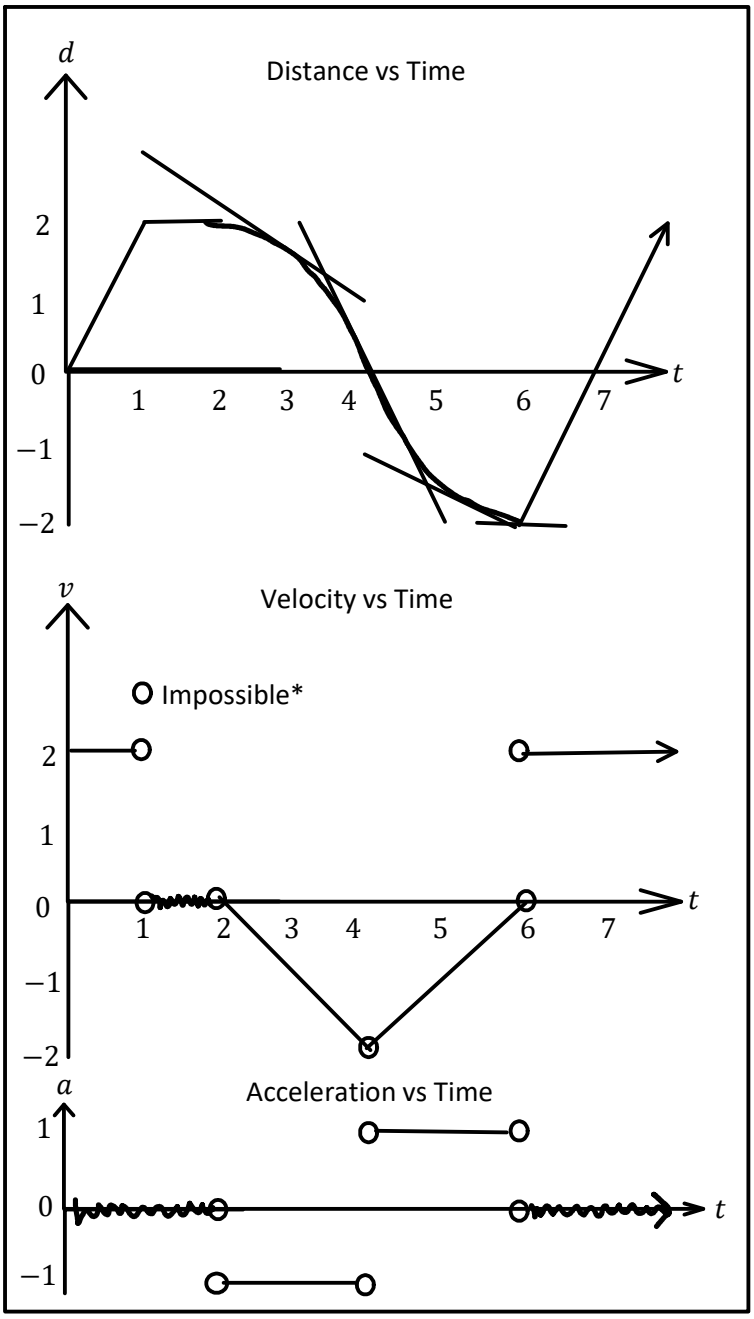
C12 - 2.1 - d vs t, v vs t Notes



Physics 11/12 Constant Acceleration





Slope→Value

Draw Tangents

Velocity is Slope of Distance vs Time

0-1 Slope is 2, draw a line at two
0-2 Slope is 0, draw a line at zero
2-4 Slope is 0 then about -2, draw a slope of -2
4-6 Slope is -2 then about 0, draw a slope of $+2$
6-8 Slope is 2, draw a line at two.

Probably won't see curved velocity until Calculus

Acceleration is Slope of Velocity vs Time

0-2 Slope is 0, draw a line at zero
2-4 Slope is -1, draw a line at -1
4-6 Slope is $+1$, draw a line at $+1$
6-8 Slope is 0, draw a line at 2

C12 - 2.1 - Anti/Derivatives Notes

Draw the Derivative/Antiderivative.

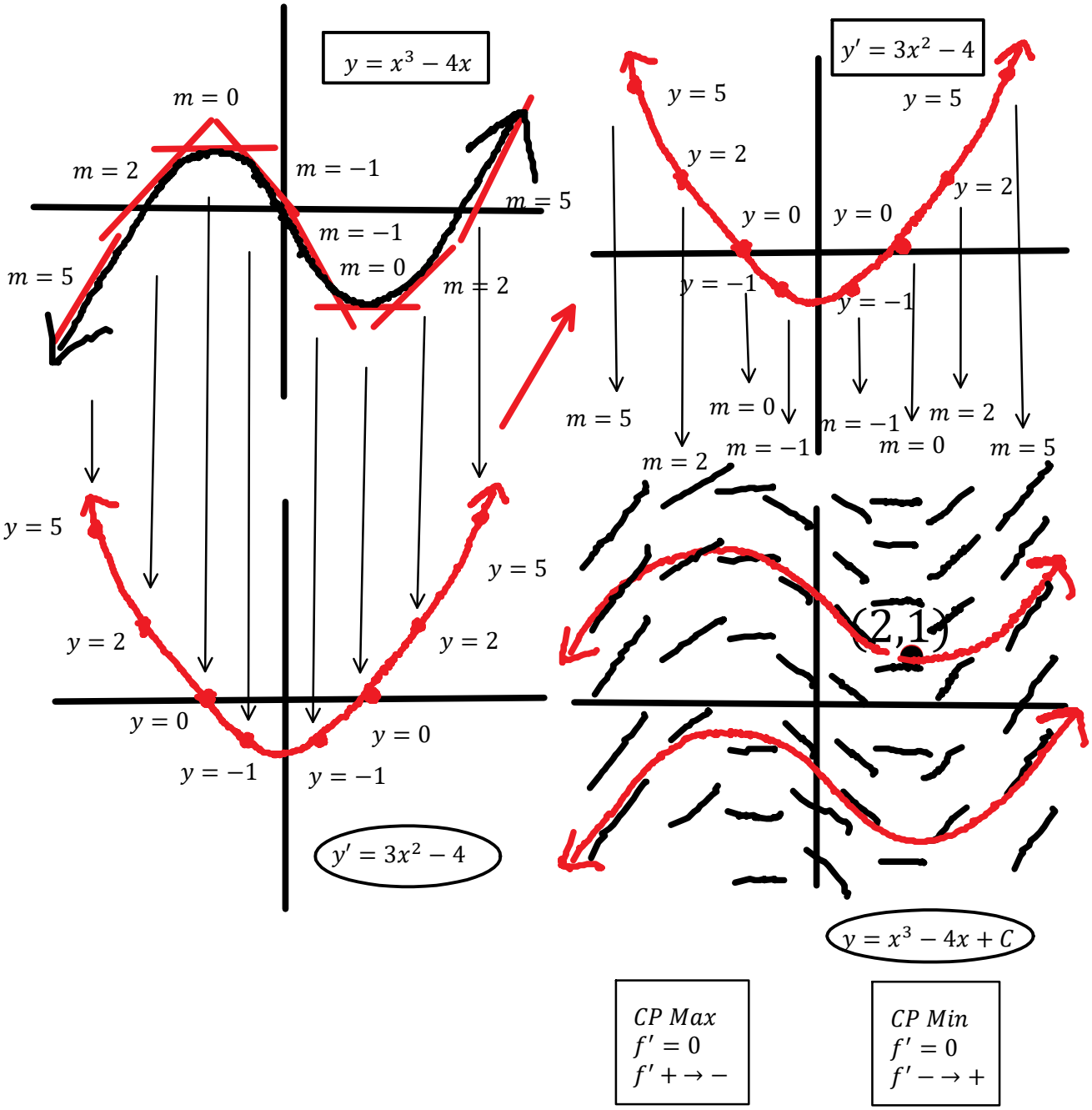
Pick an x-value to talk about, we are not done talking about that x-value until were done talking about that x-value.

y' *value* $\rightarrow$ y *value*

y *value* $\rightarrow$ m *value* (y')

$y' = 0$ *where* $y =$ *max/min*

$y =$ *max/*min *where* $y' = 0$



CP Max	*CP Min*
$f' = 0$	$f' = 0$
$f' + \rightarrow -$	$f' - \rightarrow +$