Problem Solving Steps

- List givens -
- Make appropriate assumptions (see chart)
- Write equation
- Substitute givens WITH UNITS
- Solve for unknown and write answer WITH UNITS

Assumptions

Action	Vi	V _f	а	d
"from rest"	= 0	≠0	≠0	≠0
"comes to rest"	≠0	= 0	≠0	≠0
"constant speed"	≠0	≠0	= 0	≠0
"dropped"	= 0	negative	= g	negative
"thrown up"	positive	0 (at top)	= g	positive
"thrown down"	negative	negative	= g	negative

Kinematics Review Map

Constant

displacement -

motionless

Constant

velocity –

displacement

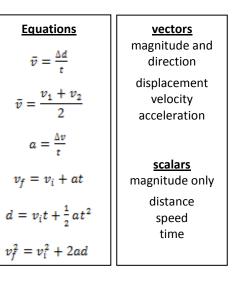
changes at constant rate

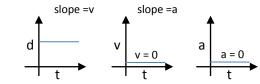
Constant

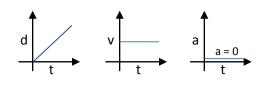
acceleration -

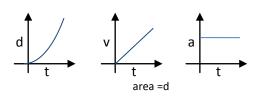
velocity

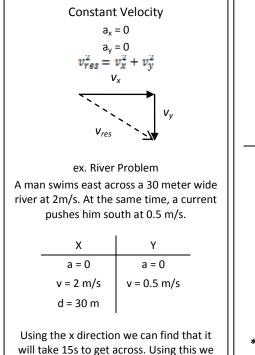
changes at constant rate











can find that the person will drift 7.5 m south before getting across.

Two Dimensional Problems

