- Write an equation for a wave with these properties (and complete the table!):

Group #	Moves to the …	Has period (s)	Has λ (m)	|Velocity| (m/s)	Amplitude (units?)	Phase constant (rad)
1	right	3	?	1	1	-π/4
2	left	1	3	?	2	π/2
3	right	2	?	3	3	-π/2
4	left	?	2	3	4	0
5	right	1	3	?	5	π/2
6	left	2	?	1	4	-π/4
7	right	?	1	2	3	π/4
8	left	3	2	?	2	π
9	right	?	3	2	1	0
10	left	2	?	1	2	0

- Sketch a plot your wave at $t = 0$