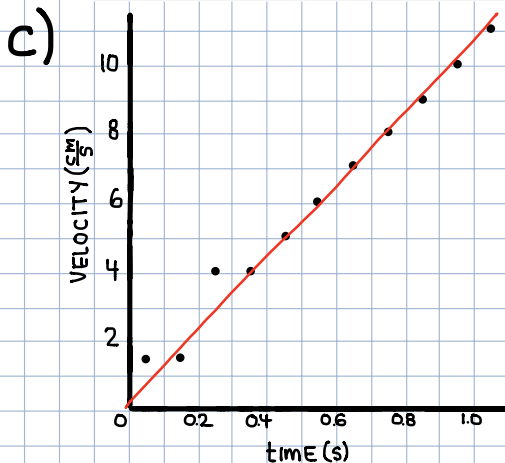
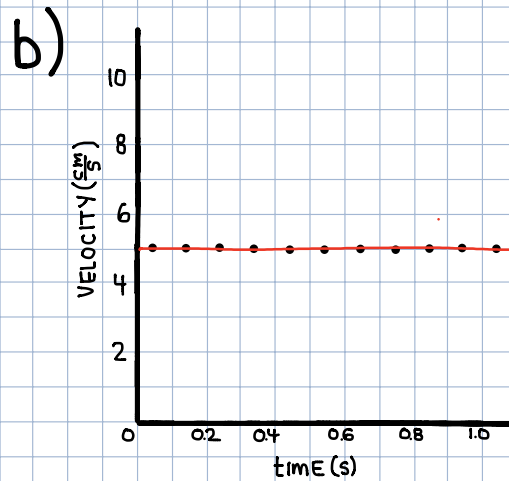


# PROJECTILE MOTION (HORIZONTALLY-LAUNCHED) - SOLUTIONS

1. 42.9 m
2. 138 m
3. 151 m
4. 28.2 m
5. 148 m
6. 84.0 m
7.  $16.3 \frac{m}{s}$
8. a)

Time (s)	Displacement from t=0 (cm)		Displacement During Time Interval (cm)		Average Velocity During Time Interval (cm/s)	
	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical
0.00	0.00	0.00				
0.10	0.50	0.15	0.50	0.15	5.0	1.5
0.20	1.00	0.30	0.50	0.15	5.0	1.5
0.30	1.50	0.45	0.50	0.15	5.0	1.5
0.40	2.00	0.60	0.50	0.15	5.0	1.5
0.50	2.50	0.75	0.50	0.15	5.0	1.5
0.60	3.00	0.90	0.50	0.15	5.0	1.5
0.70	3.50	1.05	0.50	0.15	5.0	1.5
0.80	4.00	1.20	0.50	0.15	5.0	1.5
0.90	4.50	1.35	0.50	0.15	5.0	1.5
1.00	5.00	1.50	0.50	0.15	5.0	1.5
1.10	5.50	1.65	0.50	0.15	5.0	1.5



- d) i)  $0 \frac{m}{s^2}$   
 ii)  $10 \frac{cm}{s^2}$  or  $0.1 \frac{m}{s^2}$