

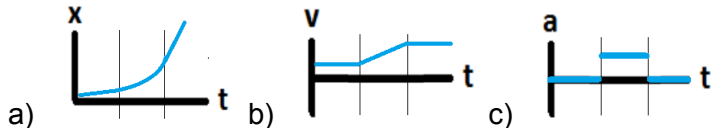
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Answers (Unit 2 Exam - 1D Kinematics)

Multiple Choice:

1	D
2	C
3	C
4	D
5	C
6	C
7	E
8	B
9	D
10	B
11	D
12	D
13	B
14	C
15	C
16	A
17	B
18	B

Free response on page 2 ->

Free Response:

1	 <p>a) x vs t b) v vs t c) a vs t d) 225 m e) 22.5 m/s</p>
2	<p>a) $t_{\text{up}} = 4.72 \text{ s}$, $t_{\text{down}} = 2.89 \text{ s}$, $t_{\text{drop}} = 3.70 \text{ s}$</p> <p>b) Mass is not a factor when determining how long it takes an object to reach the ground. In solving question #2a, I was able to use kinematics equations that do not require the mass variable. Because of which, the doubled mass would not change any of my three previously solved times.</p>