Physics 12 – REVIEW

Name: _____

Note that it is **always** necessary to show all the steps that reflect your reasoning.

Convert the following to m/s:

1. 50 km/h

2. 360 km/h

3. 85 m/min

4. 200 km/s

Convert the following to km/h:

5. 0.8 m/s

6. 256 m/s

7. 0.04 m/s

8. 25 km/s

KINEMATICS FORMULAE:

Given $v = v_0 + at$ isolate for a) time

b) acceleration

Given $\overline{v} = \frac{v+v_0}{2}$ isolate for a) initial velocity

b) final velocity

Given $v^2 = v_0^2 + 2ad$ isolate for a) initial velocity

b) acceleration

c) displacement

Given $d = v_0 t + \frac{1}{2}at^2$ isolate for a) time when the object is initially at rest

b) acceleration