

Physics 11
M. Lam

Physics Math Skills II

Name:

Block:

1. $V = IR$
 - a) solve for I

 - b) solve for R

2. $W = Fd$
 - a) solve for F

 - b) solve for d

3. $P = \frac{W}{t}$
 - a) solve for W

 - b) solve for t

4. $v_f = v_i + at$
 - a) solve for v_i

 - b) solve for a

5. $E_k = \frac{1}{2}mv^2$
 - a) solve for m

 - b) solve for v

6. $m_1v_1 + m_2v_2 = Mv_f$

a) solve for v_f

b) solve for v_1

c) solve for v_2

7. $F_A - \mu mg = ma$

a) solve for a

b) solve for F_A

c) solve for m (a bit trickier)

8. $\frac{h_i}{h_o} = -\frac{d_i}{d_o}$

a) solve for h_o

b) solve for d_i

9. $\frac{1}{2}mv_i^2 + mgh = \frac{1}{2}mv_f^2$

a) solve for v_f

b) solve for h

10. $l = l_0\sqrt{1 - \frac{v^2}{c^2}}$

a) solve for l_0

b) solve for v