

Honors Step by Step

- Using the equation $\Delta U_g = mgh$, to solve for g you should
 - (Multiply or Divide) both sides of the equation by m
 - (Multiply or Divide) both sides of the equation by h .

$$g =$$

- Using the equation $P_{avg} = \frac{W}{\Delta t}$ to solve for Δt you should
 - (Multiply or Divide) both sides of the equation by Δt .
 - (Multiply or Divide) both sides of the equation by P_{avg} .

$$\Delta t =$$

- Using the equation $C_p = C_1 + C_2$ to solve for C_2 you should
 - (Add or Subtract) C_1 from both sides of the equation.

$$C_2 =$$

- Using the equation $K = \frac{1}{2}mv^2$ to solve for v you should
 - (Multiply or Divide) both sides of the equation by 2.
 - (Multiply or Divide) both sides of the equation by m .
 - (Square or Take the square root of) both sides of the equation.

$$v =$$

- Using the equation $F_B = BI\ell \sin \theta$ to solve for θ you should
 - (Multiply or Divide) both sides of the equation by B
 - (Multiply or Divide) both sides of the equation by I
 - (Multiply or Divide) both sides of the equation by ℓ
 - (Take the sine or Take the arcsine) of both sides.

$$\theta =$$

- Using the equation $v^2 = v_o^2 + 2a(x - x_o)$ to solve for a you should
 - (Add or Subtract) v_o^2 from both sides of the equation
 - (Multiply or Divide) both sides of the equation by 2
 - (Multiply or Divide) both sides of the equation by $(x - x_o)$

$$a =$$

- Using the equation $v^2 = v_o^2 + 2a(x - x_o)$ to solve for x_o you should
 - (Add or Subtract) v_o^2 from both sides of the equation
 - (Multiply or Divide) both sides of the equation by 2
 - (Multiply or Divide) both sides of the equation by a
 - (Add or Subtract) x from both sides of the equation.

$$x_o =$$

8. Using the equation $P = Fv \cos \theta$ to solve for θ you should

I. _____

II. _____

III. _____

$\theta =$

9. Using the equation $U_s = \frac{1}{2} kx^2$ to solve for x you should

I. _____

II. _____

III. _____

$x =$

10. Using the equation $F_G = \frac{Gm_1m_2}{r^2}$ to solve for m_2 you should

I. _____

II. _____

III. _____

$m_2 =$