

Formula Rearrangement Review

Rearrange this distance formula $d = vt$

Solve for ' v '

Solve for ' t '

Rearrange the force formula $F = ma$

Solve for ' m '

Solve for ' a '

Rearrange the formula $V = IR$

Solve for ' I '

Solve for ' R '

Rearrange the formula: $W = Fd$

Solve for ' F '

Solve for ' d '

Rearrange the energy formula $E = mgh$

Solve for ' m '

Solve for ' g '

Solve for ' h '

Rearrange the formula $P = \frac{W}{t}$

Solve for ' W '

Solve for ' t '.

Rearrange the power formula $P = \frac{Fd}{t}$

Solve for ' F '

Solve for ' d '

Solve for ' t '

Rearrange the formula $\frac{h_i}{h_o} = \frac{d_i}{d_o}$

Solve for ' h_o '

Solve for ' d_i '

Rearrange the slope-intercept formula $y = mx + b$

Solve for ' x '

Solve for ' m '

Rearrange the formula $v_f = v_i + at$

Solve for ' v_i '

Solve for ' a '

Rearrange the formula $m_1v_1 + m_2v_2 = Mv_f$

Solve for ' v_1 '

Solve for ' v_2 '

Rearrange the formula $F_A - \mu mg = ma$

Solve for ' a '

Solve for ' F_A '

Rearrange the formula $E_k = \frac{1}{2}mv^2$

Solve for 'm'

Solve for 'v'

Rearrange the formula $mgh = \frac{1}{2}mv^2$

Solve for 'h'

Solve for 'v'

Rearrange the velocity formula $v_f^2 = v_i^2 + 2ad$ to

Solve for 'v_f'

Solve for 'd'

Solve for 'a'

Rearrange the formula $d = v_it + \frac{1}{2}at^2$

Solve for 'a'

Solve for 'v_i'

Rearrange the formula $\frac{1}{2}mv_i^2 + mgh = \frac{1}{2}mv_f^2$

Solve for 'v_f'

Solve for 'h'

Rearrange the formula $d = \left(\frac{v_f + v_i}{2}\right)t$

Solve for 't'

Solve for 'v_f'

Rearrange the formula $\frac{1}{f} = \frac{1}{d_o} + \frac{1}{d_i}$

Solve for ' f '

Solve for ' d_i '

Rearrange the formula $L = I_o \sqrt{L - \frac{v^2}{c^2}}$

Solve for ' L_o '

Solve for ' v '

Rearrange the formula $m = \frac{m_0}{\sqrt{1 - \frac{v^2}{c^2}}}$

Solve for ' m_0 '

Solve for ' v '

Formula Rearrangement Review

Independent Practice

Rearrange Each Formula for the Indicated Variable

MILD

1. Given $v = \frac{d}{\Delta t}$, solve for d .
2. Given $F_f = \mu F_N$, solve for μ .
3. Given $F_s = k\Delta x$, solve for k .
4. Given $E_p = mgh$, solve for h .
5. Given $W = Fd$, solve for F .

MEDIUM

6. Given $v_f = v_i + at$, solve for a .
7. Given $d = \left(\frac{v_i + v_f}{2}\right)t$, solve for t .
8. Given $d = \left(\frac{v_i + v_f}{2}\right)t$, solve for v_f .
9. Given $P = \frac{W}{\Delta t}$, solve for Δt .
10. Given $T = ma + mg$, solve for m .

SPICY

11. Given $E_k = \frac{1}{2}mv^2$, solve for v .
12. Given $v_f^2 = v_i^2 + 2ad$, solve for v_f .
13. Given $v_f^2 = v_i^2 + 2ad$, solve for v_i .
14. Given $F_g = G \frac{m_1 m_2}{r^2}$, solve for r .
15. Given $d = v_i t + \frac{1}{2}at^2$, solve for a .