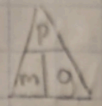
Sophia Daniel Nero Avecias 21-Feb-2022

Despejes

Actividad: Realiza lo que se pide

A)

$P = mg$ despejar

$g = \frac{P}{m}$ $\quad P = (m)(g)$ 

$m = \frac{P}{g}$

B)

$$d = \frac{Vf^2 - Vi^2}{2a}$$

Despejar

$Vf^2 = d * a * 2 * + Vi^2$

$Vi^2 = d * a * 2 * + Vf^2$

$= \frac{Vf^2 - Vi^2}{2 * d}$

Vi^2

$d = \frac{Vf^2 - Vi^2}{2a}$

$2 * d = \frac{Vf^2 - Vi^2}{a}$

$a * 2 * d = Vf^2 - Vi^2$

$Vi^2 = d * 2 * a * + Vf^2$

Vf^2

$d = \frac{Vf^2 - Vi^2}{2a}$

$d = \frac{Vf^2 - Vi^2}{a}$

$a * 2 * d = Vf^2 - Vi^2$

$Vf^2 = d * 2 * a * + Vi^2$

a

$d = \frac{Vf^2 - Vi^2}{2a}$ $\quad a * 2 * d = Vf^2 - Vi^2$

$2 * d = \frac{Vf^2 - Vi^2}{a}$ $\quad a = \frac{Vf^2 - Vi^2}{2d}$

21- Feb 2022

c) $d = \frac{g t^2}{2}$

Despejar

$g = (d)(t^2)(2)$

$t = (g)(d)(2)$

t

$d = \frac{g t^2}{2}$

$g * d = \frac{t^2}{2}$

$2 * g * d = t^2$

$t = (g)(d)(2)$

g

$d = \frac{g t^2}{2}$

$t^2 * d = \frac{g}{2}$

$2 * t^2 * d = g$

$g = d * t^2 * 2$

d) $T = \frac{1}{f}$

Despejar

$f = (T)(1)$

F

$T = \frac{1}{f}$

$1 * T = f$

$f = T * 1$

M^1

$F = \frac{K m^1 m^2}{r^2}$

$F * r^2 = K m^1 m^2$

$r^2 * F * K * m^2 = m^1$

$m^1 = (r^2)(F)(K)(m^2)$

M^2

$F = \frac{K m^1 m^2}{r^2}$

$F * r^2 = K m^1 m^2$

$F * K * r^2 * m^1 = m^2$

$F * K * r^2 = m^1 m^2$

$m^2 = (F)(K)(r^2)(m^1)$

e)

$F = \frac{K m^1 m^2}{r^2}$

$K = \frac{r^2 * F}{m^1 m^2}$

$M1 = (r^2)(F)(K)(m^2)$

$M^2 = (F)(K)(r^2)(m^1)$

$r^2 =$

K

$F = \frac{K m^1 m^2}{r^2}$

$(r^2)(F) = (K)(m^1 m^2)$

$\frac{(r^2)(F)}{m^1 m^2} = K$

$K = \frac{r^2 * F}{m^1 m^2}$

$F = \frac{K m^1 m^2}{r^2}$

$r^2 * F = \frac{K m^1 m^2}{r^2}$

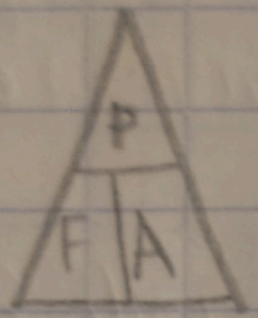
$\frac{F * r^2}{F} = \frac{\sqrt{K * m^1 m^2}}{F}$

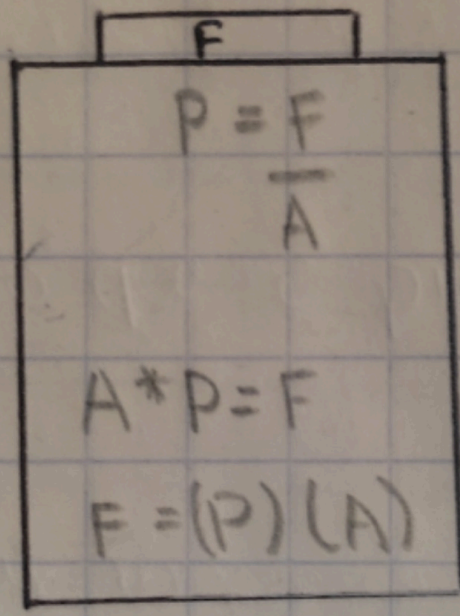
$r^2 = \frac{\sqrt{K * m1 \; m^2}}{F}$

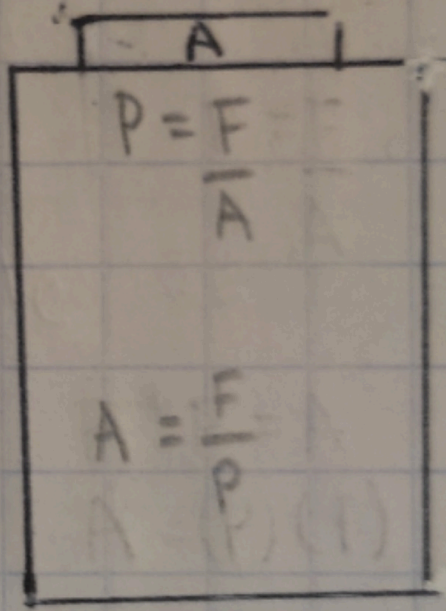
21-Feb-2022

f)

$$P = \frac{F}{A}$$







Despejar:

$F = (P)(A)$

$A = \frac{F}{P}$