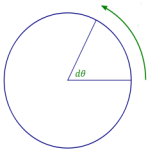
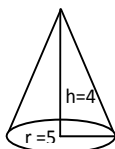


# Solution to μαρ<sup>2</sup>γ με?

By Jen Maertens

This puzzle requires you to solve equations. Each equation has a single letter or number as the solution.

$\omega$    $\frac{d\theta}{dt} = ?$  *Looking for angular velocity,  $\omega$*

$h$   $\frac{\frac{100\pi}{3}}{\frac{1}{3}\pi r^2} = ?$    $\frac{\frac{100\pi}{3}}{\frac{1}{3}\pi r^2} = \frac{\frac{100\pi}{3}}{\frac{1}{3}\pi 5^2} = \frac{100\pi}{25\pi} = 4 = h$

$y$   $\sqrt{\frac{d}{dy}\left(\frac{y^3}{3}\right)}$   $\sqrt{\frac{d}{dy}\left(\frac{y^3}{3}\right)} = \sqrt{y^2} = y$

$n$   $\frac{10\sum_1^n \log k}{(n-1)!}$   $\frac{10\sum_1^n \log k}{(n-1)!} = \frac{10^{\lceil \log(1)+\log(2)+\dots+\log(n-1)+\log(n) \rceil}}{(n-1)!} = \frac{10^{\lceil \log(1*2*\dots*(n-1)*n) \rceil}}{(n-1)!} = \frac{10^{\lceil \log(n!) \rceil}}{(n-1)!} = \frac{n!}{(n-1)!} = n$

$0$   $e^{\ln 0}$   $e^{\ln 0} = 0$

$t$   $2520 * \frac{d}{dt}\left(\frac{C(t,7)}{P(t,5)}\right) + 5.5$   $2520 * \frac{d}{dt}\left(\frac{C(t,7)}{P(t,5)}\right) + 5.5 = 2520 * \frac{d}{dt}\left(\frac{\frac{t!}{7!(t-7)!}}{\frac{t!}{(t-5)!}}\right) + 5.5$   
 $= 2520 * \frac{d}{dt}\left(\frac{(t-5)(t-6)(t-7)!}{7!(t-7)!}\right) + 5.5$   
 $= 2520 * \frac{d}{dt}\left(\frac{t^2 - 11t + 30}{7!}\right) + 5.5 = \frac{2520}{7!} * (2t - 11) + 5.5$   
 $= \frac{1}{2}(2t - 11) + 5.5 = t$

The solutions spell out **why not**.