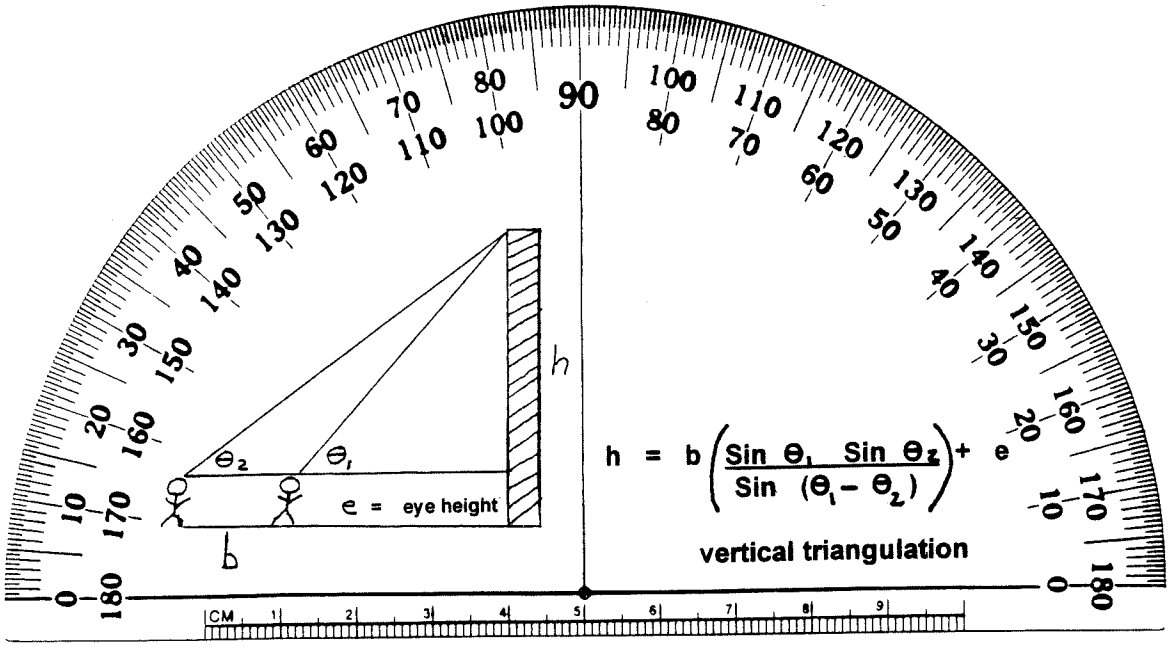
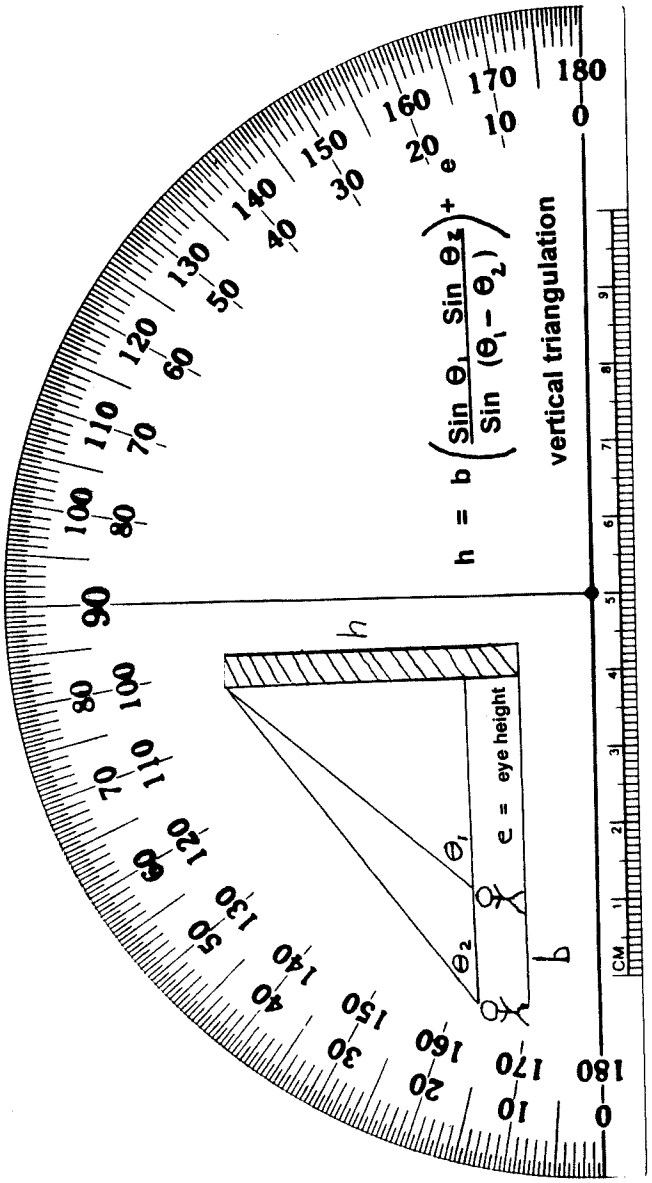

h = b (Sin θ1 Sin θ2 / Sin (θ1 − θ2)) + e
vertical triangulation
e = eye height
θ2
θ1
h
b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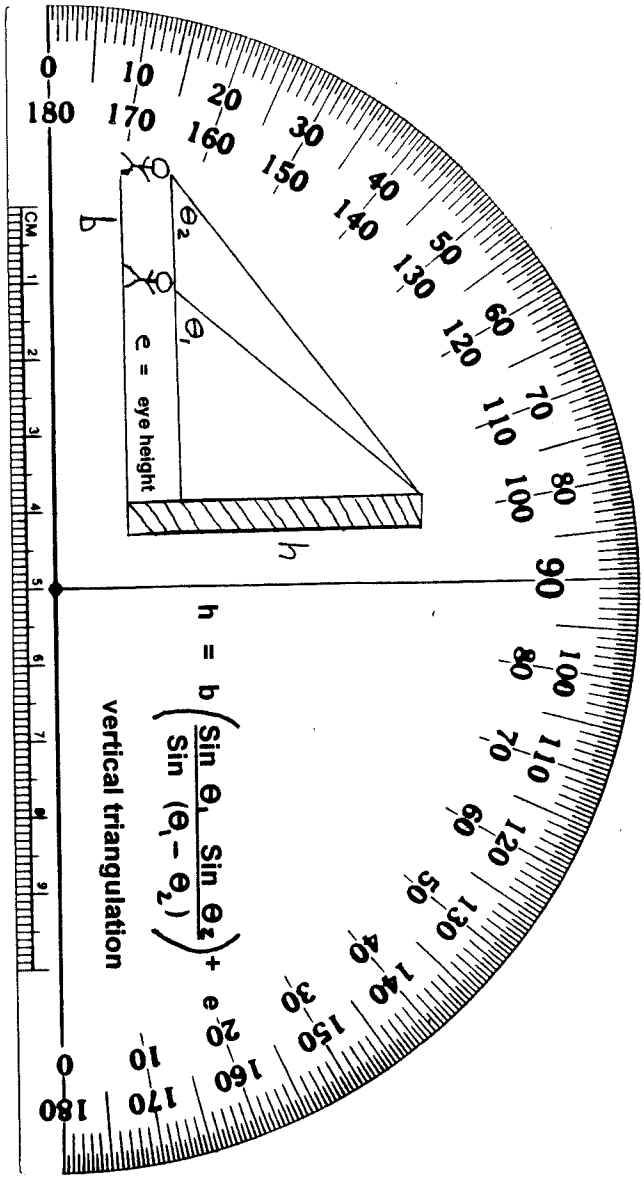
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$g = 9.8\ m/s^2$

T = Period Δt for one revolution

$v = \frac{\Delta s}{\Delta t}$

$a = \frac{v_f - v_i}{\Delta t}$

$\Delta s = v_i \Delta t - 1/2\ a \Delta t^2$

$v_f^2 - v_i^2 = 2 a \Delta S$

Circular motion

$v = \frac{2 \pi r}{T}$ r = radius

$F = \frac{mv^2}{r}$

$a = \frac{v^2}{r}$

Circumference = $2 \pi r$

PE = mgh

KE = $1/2\ mv^2$

W = change in energy

$W = F \Delta S \cos \theta$

Power = $\frac{W}{\Delta t}$

g's = $\frac{a}{9.8}$

$P_i = P'$

$m_1 v + m_2 v = m_1 v' + m_2 v'$

eye height _____ pace length _____

average mass of person 65kg

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