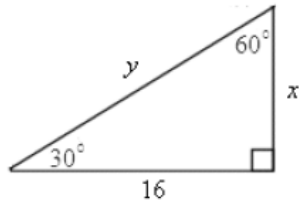


Exercises

Find x and y .

1.



$\cos 30 = 16/y$

$y = 16/\cos 30 = 18.48$

$\tan 30 = x/16$

$x = 16(\tan 30) = 9.24$

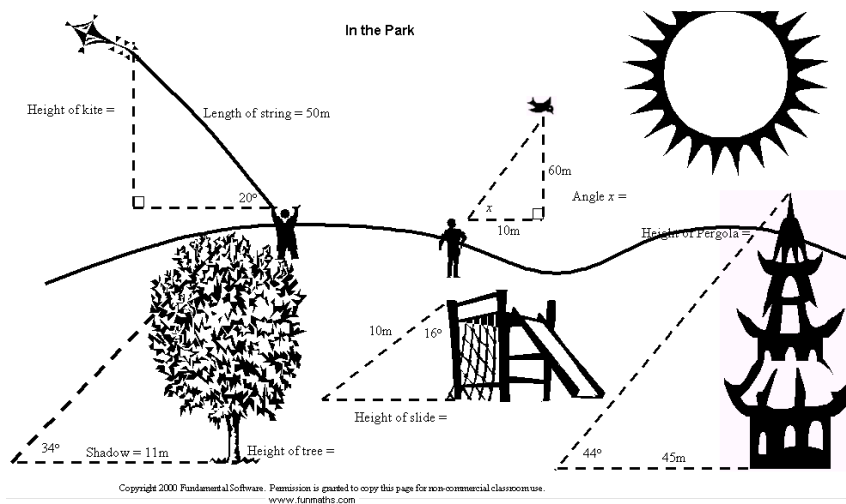
a) $\sin 20 = \text{height of kite}/50$

$\text{height} = 50 \sin 20 = 17.1 \text{ m}$

b) $\tan x = 60/10$

$\tan x = 6$

$x = \tan^{-1}(6) = 80.5^\circ$



c) $\tan 34 = h/11$

$h = 11 \tan 34 = 7.4 \text{ m}$

d) $\cos 16 = x/10$

$x = 10(\cos 16) = 9.6 \text{ m}$

e) $\tan 44 = h/45$

$h = 45 \tan 44 = 43.5 \text{ m}$

