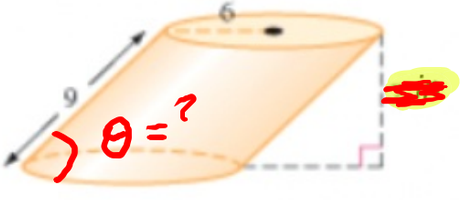
Review Problems

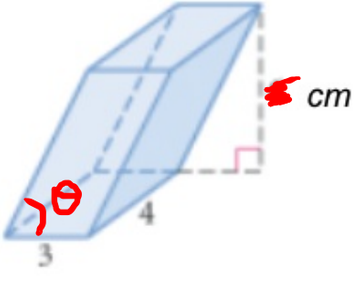
Oblique Cylinder



Volume = $252\pi\ in^3$

height = ?

Oblique rectangular prism



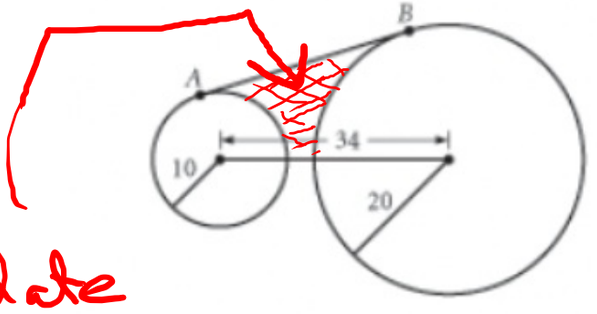
Volume = $72\ cm^3$

height = ?

If slant ht = 7 cm

then θ = ?

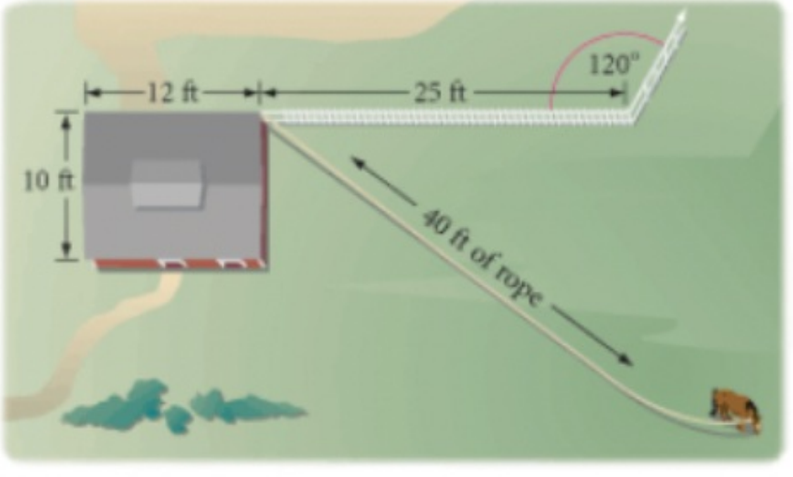
14. $\overline{AB}$ is a common external tangent. Find the length of $\overline{AB}$ (to a tenth of a unit).



Calculate this area!

Quadrilateral Problems

16. Yan uses a 40 ft rope to tie his horse to the corner of the barn to which a fence is attached. How many square feet of grazing, to the nearest square foot, does the horse have?



Triangle Problem

15. Two bird nests, 3.6 m and 6.1 m high, are on trees across a pond from each other, at points P and Q. The distance between the nests is too wide to measure directly (and there is a pond between the trees). A birdwatcher at point R can sight each nest along a dry path. $RP = 16.7$ m and $RQ = 27.4$ m. $\angle QPR$ is a right angle. What is the distance d between the nests?

$d = ?$

$\theta = ?$