Frustum: A pyramid or cone with the vertex (top) sliced off

$$\boxed{\text{Volume} = \frac{1}{3}h(B_1 + B_2 + \sqrt{B_1B_2})}$$

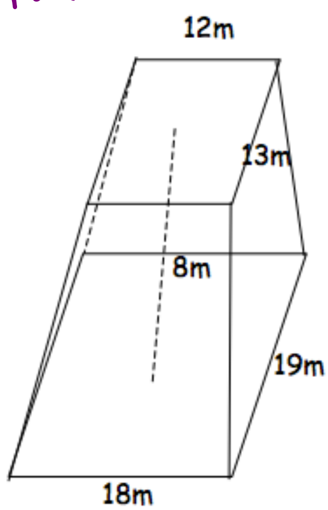
$$\cancel{LA = \frac{(\text{sum of perimeter of bases})\, l}{2}}$$

Where h = height (perpendicular distance between bases)
B_1 = area of top base, B_2= area of bottom base.

$B_1 = 12(13) = 156\,m^2$

$B_2 = 18(19) = 342\,m^2$

$h = 8m$



V=

$$V = \frac{1}{3}(8)(\underbrace{156+342}+\sqrt{156\cdot 342})$$

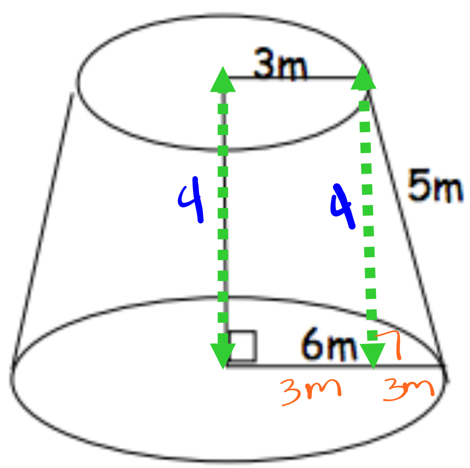
$12\ 13$, $4\ 3$, $2\ 2$; $18\ 19$, $3\ 6$, $3\ 2$

$$V = \frac{1}{3}(8)(498 + 6\sqrt{1482})$$

$$V = \boxed{1328 + 16\sqrt{1482}\ m^3}$$

$h = 4m$

$3^2 + x^2 = 5^2$



$B_1 = \pi(3^2) = 9\pi$

$B_2 = \pi(6^2) = 36\pi$

$V = \frac{1}{3}(4)\left(9\pi + 36\pi + \sqrt{9\pi \cdot 36\pi}\right)$

33 66

$V = \frac{1}{3}(4)(45\pi + 18\pi)$

$V = \frac{1}{3}(4)(63\pi)$

$\boxed{V = 84\pi \ m^3}$