
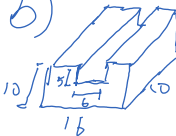
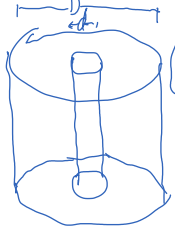


by Jerry Zhang

a)   $8^3 - (4^2 \cdot 8)$   
 $= 512 - 128$   
 $= 384 \text{ (cm)}$

b)   
 $10 \times 10 \times 16 = 1600$   
 $5 \times 6 \times 10 = 300$   
 $1600 - 300 = 1300$

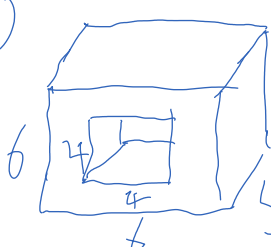
c)  $D = 24 \text{ cm}$ ,  $d = 6 \text{ cm}$ ,  $h = 18 \text{ cm}$   
  
 $\left[ \left( \frac{24}{2} \right)^2 \pi \cdot 18 \right] - \left[ \left( \frac{6}{2} \right)^2 \pi \cdot 18 \right]$   
 $= 2592\pi - 162\pi$   
 $= 2430$

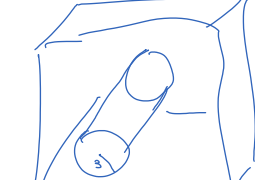


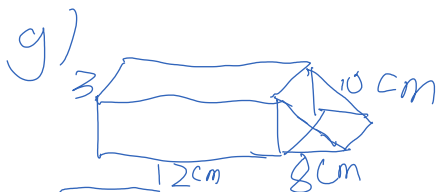
$$1^3 + 3^2 + 5^2 + 7^2 + 9^2$$

$$= 1 + 9 + 25 + 49 + 81$$

$$= 165$$

d)   
 $6 \times 5 - 4^2 \cdot 5$   
 $= 180 - 80$   
 $= 100$

e)   
 $3^2 \pi \cdot 10 = 90\pi$   
 $10^3 - 90\pi = 1000 - 90\pi$   
 $= 1000 - 279$   
 $= 721$

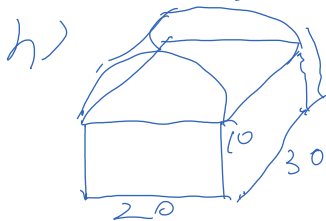


$$\sqrt{10^2 - 8^2} = 6$$

$$12 \times 6 \times 3 = 18 \times 12 = 216$$

$$3 \times 8 \times 6 \div 2 = 144$$

$$216 + 144 = 360$$



$$\left( \frac{20}{2} \right)^2 \pi \cdot 30 = 3000\pi$$

$$20 \times 10 \times 30 = 6000$$

$$6000 + 3000\pi$$