

- ① Mrs. Baum won \$5,600 on a quiz show. If she must pay 20% in taxes, how much will she have left?
- ② Bob can cut a lawn in 4 hrs. Betty can cut the same lawn in 3 hrs. Working together (with 2 mowers) how long to cut?
- ③ Graph the circle:

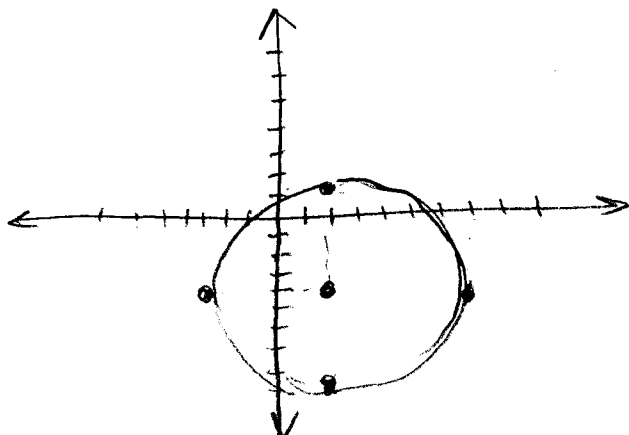
$$x^2 + y^2 - 4x + 8y - 5 = 0$$

① 20% of 5600 = 1120 \therefore 5600 - 1120 = 4480

② $1_{\text{lawn}} \Rightarrow (\frac{1}{3} + \frac{1}{4}) \frac{\text{lawn}}{\text{hr}} \cdot (h) \text{hr} \Rightarrow 1 = \frac{7}{12} h$

③ $x^2 - 4x + \{2^2\} + y^2 + 8y + \{4^2\} = 5 + 20$ $h = \frac{12}{7} = 1\frac{5}{7} \text{ hrs}$

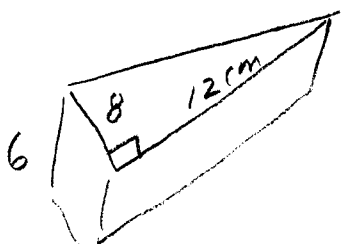
$(x-2)^2 + (y+4)^2 = 25 \therefore$ Center (2, -4), r = 5

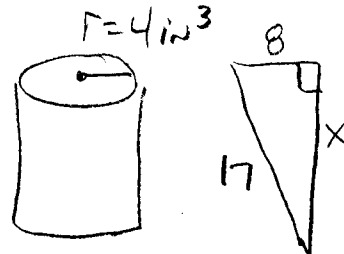


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- ① Cylinders: • drinking glass
• telephone pole
• body of pen
- prisms: • box
• computer case (tower)
• honeycomb

② $3^3 = 27$ not 9, Julia is correct.

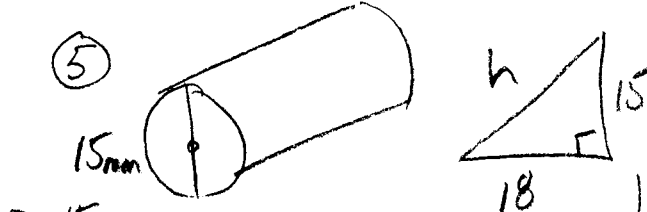
③  $A_{\text{base}} = \frac{1}{2} \cdot 12 \cdot 8 = 48 \text{ cm}^2$
 $V = 48 \text{ cm}^2 \cdot 6 \text{ cm} = \boxed{288 \text{ cm}^3}$

④  $r = 4 \text{ in}$
 $x^2 = 17^2 - 8^2 = 289 - 64 = 225$
 $x = 15$

$A_{\text{base}} = 16\pi$ $\therefore V = (16\pi)15 = 240\pi \text{ in}^3$

$V \approx 753.98$

$V \approx \boxed{754.0 \text{ in}^3}$

⑤  15 mm
 $r = \frac{15}{2}$
 $h^2 = 15^2 + 18^2 = 225 + 324$
 $h^2 = 549$ $h \approx 23.431$
 $\therefore A_{\text{base}} = \left(\frac{15}{2}\right)^2 \pi \approx 176.71$
 $\therefore V = (176.71)(23.431)$

$V \approx \boxed{4140.6 \text{ mm}^2}$

⑥ $12 \cdot 12 \cdot 14$

$144 \cdot 14 = \boxed{2016 \text{ ft}^3}$

Return / review Quiz 1 / HW 1

Group practice:

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