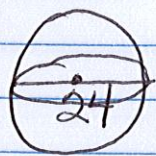


Volume assignment 1-10A

① Find volume of sphere $d = 24 \text{ cm}$



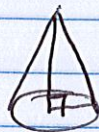
$$V = \frac{4}{3}\pi r^3 = 4(3.14)(12)(12)(12) \div 3 = \cancel{602.88 \text{ cm}^3}$$

$$r = \frac{d}{2} = \frac{24}{2} = 12 \text{ cm}$$

$$= 7234.56$$

$$\textcircled{B} = 7240 \text{ cm}^3$$

② $h = 25 \text{ cm}$ Find volume of cone
 $r = 10 \text{ cm}$

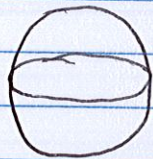


$$V = \pi r^2 h \div 3$$

$$V = 3.14(10)(10)(25) \div 3$$

$$V = 2616.\bar{6} \approx 2618 \text{ cm}^3 \textcircled{A}$$

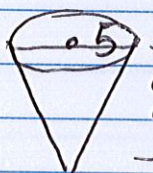
③ Find volume $r = 4$



$$V = \frac{4}{3}\pi r^3 \div 3 = 4(3.14)(4)(4)(4) \div 3$$

$$= 267.9 \approx 268 \text{ in}^3 \textcircled{B}$$

④ Find the volume



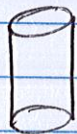
$$V = \pi r^2 h \div 3$$

$$V = 3.14(25)(25)(11.5) \div 3$$

$$V = 75.2 \approx 75 \text{ cm}^3 \textcircled{B}$$

$$r = \frac{d}{2} = \frac{5}{2} = 2.5$$

⑤ $d = 5 \text{ in}$ Find height



$$V = 157 \text{ in}^3$$

$$V = \pi r^2 h$$

$$r = \frac{d}{2} = \frac{5}{2} = 2.5$$

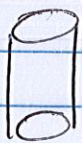
$$157 = 3.14(2.5)(2.5)h$$

$$157 = 19.625h$$

$$\frac{157}{19.625} = \frac{19.625}{19.625}h$$

$$7.99 \approx 8 = h \textcircled{B}$$

⑥ $h = 4 \text{ in}$



$$C = 18.84 \text{ in}$$

Find the volume

Step 1 Find the radius

Step 2 Find volume

Step 1

$$C = 2\pi r$$

$$18.84 = 2(3.14)r$$

$$18.84 = 6.28r$$

$$\frac{18.84}{6.28} = \frac{6.28r}{6.28}$$

$$3 = r$$

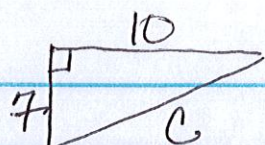
$$V = \pi r^2 h$$

$$V = 3.14(3)(3)(4)$$

$$V = 113.04 \text{ cu in. } \textcircled{B}$$

Volume assignment 1-10A

⑦



Find distance btwn lamps

$$\text{leg}^2 + \text{leg}^2 = \text{hypotenuse}^2$$

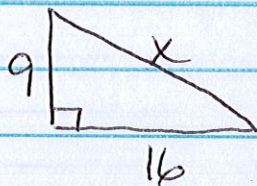
$$7^2 + 10^2 = c^2$$

$$49 + 100 = c^2$$

$$\sqrt{149} = \sqrt{c^2}$$

$$12.25 \approx 12 \text{ ft } \textcircled{A} = c$$

⑧



$\sqrt{9^2 + 16^2} = x$ Which equation shows the result of the first step?

Ⓐ $\sqrt{81 + 256} = x$

⑨

Which statement is true for landscapers?

Sean $y = 20x + 30$ Julie $m = \frac{y_2 - y_1}{x_2 - x_1}$ $(0, 26)$
 $m = 20$ $(1, 48)$

$$b = 30$$

$$m = \frac{48 - 26}{1 - 0} = \frac{22}{1} = 22$$

Ⓒ Sean charges a greater one time fee.

$$b = (0, 26) = 26$$

bc the equation shows a greater y intercept than the table

⑩

Which pair represents the original + the modified w/ the triple rate of change?

Ⓓ $y = -5x + 6$ and $y = -15x + 6$