Cours 19/05

jeudi 19 mai 2022 17:48

20×4 80 25×5 125
4×4 16 25×10×2 500
24×10×2 480

Exercices : 9 à 11 p 111

9)

$A_{sphere} = 4\pi R^2$

$A_s(14) = 4\pi \cdot 196$ } $29 \cdot 4\pi$
$A_s(15) = 4\pi \cdot 225$ } $\neq$
$A_s(24) = 4\pi \cdot 576$ } $49 \cdot 4\pi$
$A_s(25) = 4\pi \cdot 625$ }

10)

$A_s = 256\pi$
$A_s = 4\pi r^2$

$256\pi = 4\pi r^2$

$\Leftrightarrow r^2 = \frac{2^8}{2^2} = 2^6 = 64$

$\Leftrightarrow r = \sqrt[2]{64} = 8$

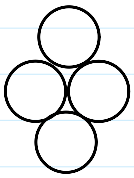
$D = r \times 2 = 16$ m

0 1 2 3 4 5 6 7 8
1 2 4 8 16 32 64 128 256

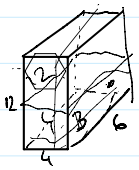
512 1024 2048 4096

1 4 9 16 25 36 49 64 81 (8)
100 121 144 169 196 225

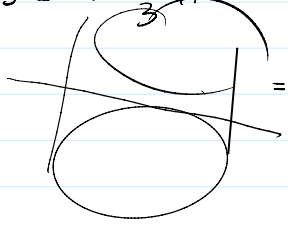
11) schéma :



$4 \times S_s = (4r)^2\pi = 8^2\pi = 64\pi$
$= 4 \times 4\pi r^2 = (4 \times 2)^2\pi$
$= 4^2 r^2 \pi$
$= (4r)^2\pi$



$4 \times V_s = 4 \times \frac{4}{3}\pi r^3 = \frac{4^2}{3}\pi r^3$



$= \frac{2^7}{3}\pi$