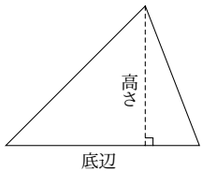
数学Ⅰ　冬休み補習プリント＃１

年　　号

氏名

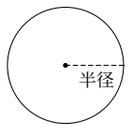
■　面積・体積（中学校の復習）

■　三角形の面積



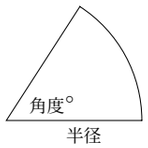
$$三角形の面積 = \frac{1}{2} \times 底辺 \times 高さ$$

■　円の面積
■　円周の長さ



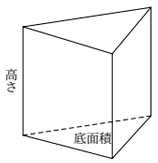
$$円周の長さ = 2\pi r = 2 \times \pi \times 半径$$
$$円の面積 = \pi r^2 = \pi \times 半径^2$$

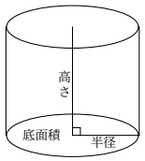
■　おうぎ形の弧の長さ
■　おうぎ形の面積



$$弧の長さ = 円周の長さ \times \frac{角度°}{360°}$$
$$おうぎ形の面積 = 円の面積 \times \frac{角度°}{360°}$$

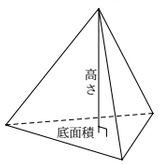
■　角柱・円柱の体積

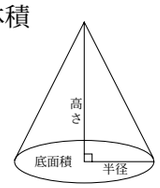




$$角柱・円柱の体積 = 底面積 \times 高さ$$

■　角すい・円すいの体積

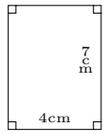




$$\begin{pmatrix} 角すい・円すい \\ の体積 \end{pmatrix} = \frac{1}{3} \times 底面積 \times 高さ$$

1　次の図形の面積を求めなさい。

(1)



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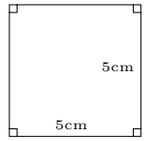

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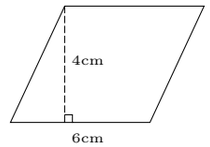

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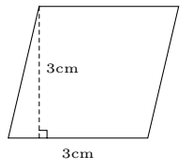

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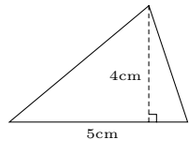

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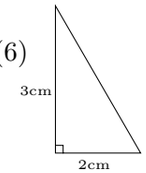

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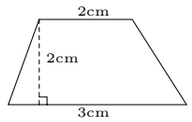

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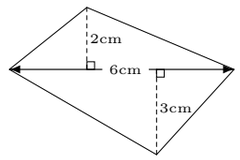

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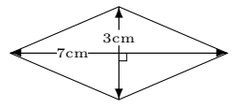
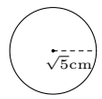


2　次の円の**面積**と**円周の長さ**を求めなさい。ただし円周率は π とする。

(1)

(2)



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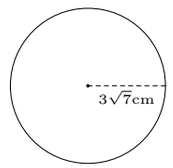
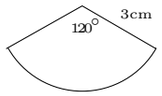


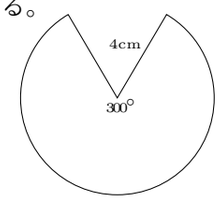
3 次のおうぎ形の**面積**と**弧の長さ**を求めなさい。ただし円周率は π とする。

(1)



(2)

(3)



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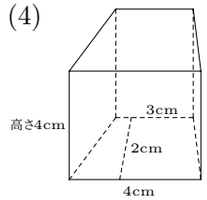

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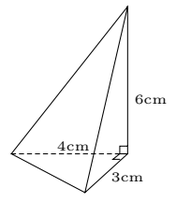
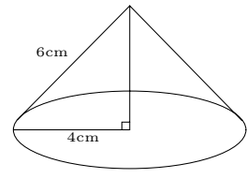


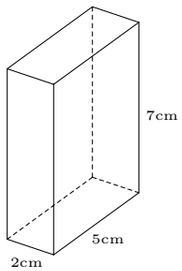
(6)



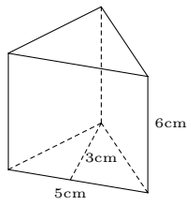
三平方の定理を使って
高さを計算しましょう

4 次の立体の体積を求めなさい。ただし円周率は π とする。

(1)



(2)



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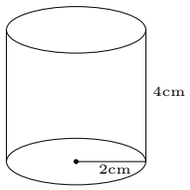

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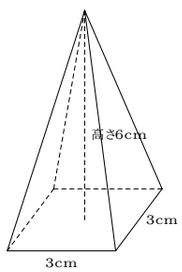

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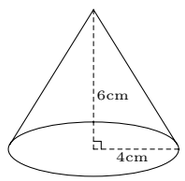
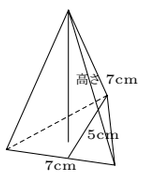
(6)