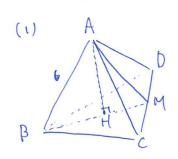
- **29** 1 辺の長さが 6 である正四面体 ABCD について, 以下の問いに答えよ.
 - (1) 正四面体 ABCD の体積 V を求めよ.
 - (2) 正四面体に内接する球について, 半径を求めよ.
 - (3) 内接球の体積を求めよ.



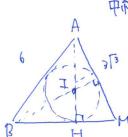
CDO PEZM 276

点AがG ABCDA車網を下すし、交通をHでするを、 EHIZ A BCPa ALILY 27230 こBHは2n外神内の報とである



まって 作税 リニョ×4BCPの画視×AH = - 3 x 1 .6.6. Fin 60° x 256 = 7.7.6.6. \$ 46 = 18/2

(2) 正四面体《对称相》,内部不同中心问 明子以 AMD上にある 打、角面的稀的、外部外外的。 中衛上了了了工作用了例。



左国のように、△ABMの内接円の 半得でする水山で、でれて一直対る。

AMBO 面形 Prodice

$$S = \frac{1}{2}r(6+3\sqrt{3}+3\sqrt{3})$$

$$= (3+3\sqrt{3})r$$

$$S = \frac{1}{2} \cdot AM \cdot BM \cdot Sin \angle AMB$$

$$= = 7 \cdot 27 - 3 \cdot 3\sqrt{3} \cdot 3\sqrt{3} \cdot as \angle AMB$$

$$-18 = -27 - 3 \cdot as \angle AMB$$

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$$-18 = -2$$

せ酸い $=\frac{\sqrt{17}}{2\sqrt{3}+1}\times\frac{2\sqrt{3}-1}{2\sqrt{3}-1}$ = 17 (2/3-1)