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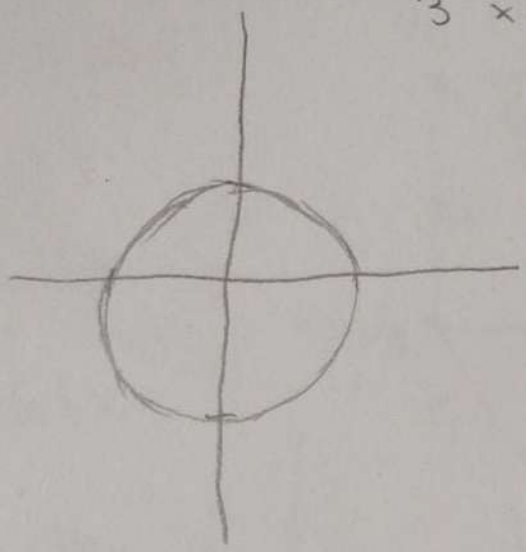
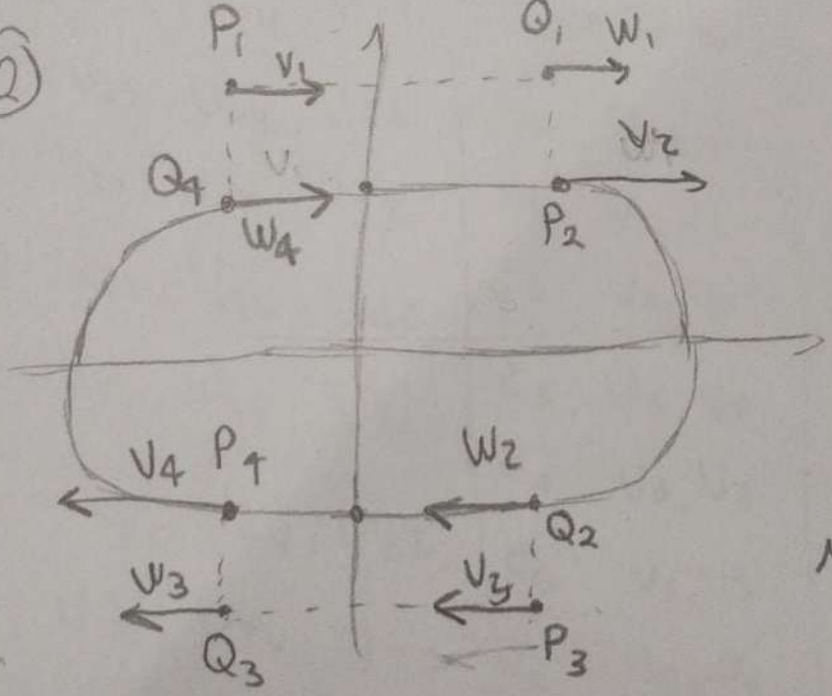
① 3 $x = -\cos(t), y = \sin(t)$



②



$V_1 = W_1 = V_2 = W_4$

$W_2 = -V_2 = -W_4 = V_4$

$V_3 = W_2 = W_3 = V_4$

$M_i := (P_i Q_i V_i W_i)$

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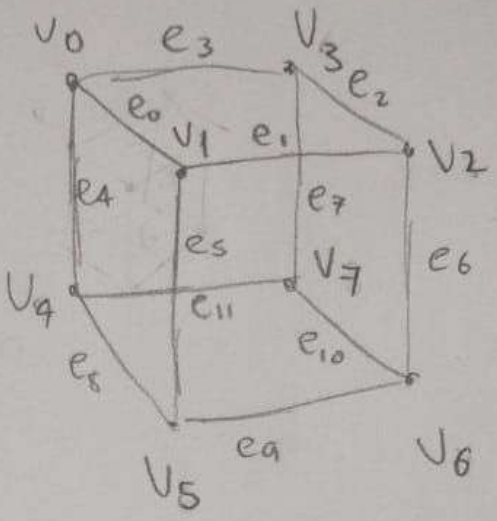
(3) Faces missing

1, 5



Vertex table

$V_0 = V_{0x}, V_{0y}, V_{0z}$

$V_1 = V_{1x}, V_{1y}, V_{1z}$

$V_2 = V_{2x}, V_{2y}, V_{2z}$

$V_3 = V_{3x}, V_{3y}, V_{3z}$

$V_4 = V_{4x}, V_{4y}, V_{4z}$

$V_5 = V_{5x}, V_{5y}, V_{5z}$

$V_6 = V_{6x}, V_{6y}, V_{6z}$

$V_7 = V_{7x}, V_{7y}, V_{7z}$

Edge table

$e_0 : V_0, V_1$

$e_1 : V_1, V_2$

$e_2 : V_2, V_3$

$e_3 : V_3, V_0$

$e_4 : V_0, V_4$

$e_5 : V_1, V_5$

$e_6 : V_2, V_6$

$e_7 : V_3, V_7$

$e_8 : V_4, V_5$

$e_9 : V_5, V_6$

$e_{10} : V_6, V_7$

$e_{11} : V_7, V_4$

Surface table

$S_0 : V_0, V_3, V_2, V_1$

$S_1 : V_3, V_7, V_6, V_2$

$S_2 : V_7, V_4, V_5, V_6$

$S_3 : V_4, V_0, V_1, V_5$

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math

④ $n=0$ 1 $S=20$

$n=1$ 20

$N=20$

$n=2$ $120+120$

$+60+100$

$=400$

$$D=\frac{\ln(20)}{\ln(20)}=1$$