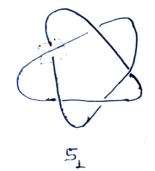
1) Unknotting no. of 5,



1st unknottiv



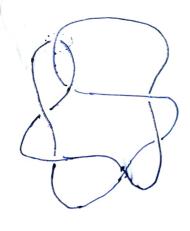
2 2nd unknoting







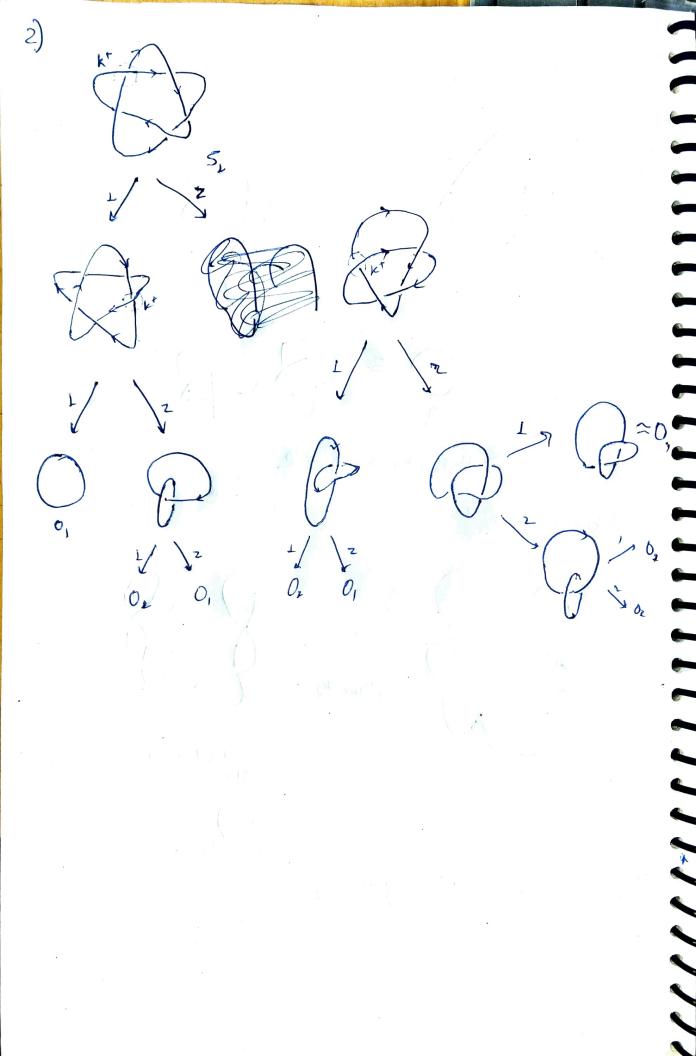
* Unknotting no. of 72





Untwist it





$$\nabla_{k^{+}} - \nabla_{k^{-}} = 2\nabla_{k^{0}}$$

$$\Rightarrow \nabla_{k^{+}} = \nabla_{k^{-}} + 2\nabla_{k^{0}}$$

$$= \nabla_{0} + 2\nabla_{k^{0}} = 1 + 2\nabla_{k^{0}}$$

$$= \nabla_{0} + 2\nabla_{k^{0}} = 1 + 2\nabla_{k^{0}}$$

$$= 0 + 2 = 2$$

$$\int_{V_{k^{+}}} = (1 + 2^{2}) + 2(\nabla_{k^{0}}) = 0$$

$$\nabla_{k^{+}} = (1 + 2^{2}) + 2(\nabla_{k^{0}}) = 0$$

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$$\nabla_{k^{+}} = (1 + 2^{2}) + 2(\nabla_{k^{0}}) = 0$$

$$\nabla_{k^{+}} = \nabla_{k^{-}} + 2\nabla_{k^{0}}$$

$$= 0 + 2 = 2$$

$$\int_{V_{k^{+}}} = 2 + 2\nabla_{k^{0}}$$

$$\nabla_{k^{+}} = 2 + 2\nabla_{k^{0}}$$

>) 1-t-1+t2+fr

James ,

$$V_{k+} = t^{2}(V_{k-}) + t(t^{2} - t^{2}) V_{k}$$
 $= t^{2}V_{k} + (t^{2}t_{k} - t^{2}) V_{k}$
 $V_{k+} = t^{2}(V_{k+}) + atV_{k}$
 $V_{k+} = t^{2}(V_{k+}) + atV_{k}$
 $= t^{2} + atV_{k}$
 $V_{k+} = t^{2}(V_{0}) + at(V_{0})$
 $= t^{2} + at(t^{2}(V_{0}) + at)$
 $= t^{2} + at^{2}(V_{0}) + at$
 $= t^{2} - at^{2}(V_{0}) + at$
 $= t^{2} - at^{2}(V_{0}) + at$
 $= t^{2} - at^{2}(V_{0}) + at(V_{k})$
 $= t^{2} - at^{2}(V_{k-}) + at(V_{k}) + at(V_{k})$
 $V_{k+} = (t^{2})(t^{2} - at^{2}V_{k-} - at^{2}V_{k-}) + at(V_{k})$
 $V_{k+} = t^{2}(V_{k-}) + at(V_{k})$
 $= t^{2}(V_{k-}) + at(V_{k})$
 $= t^{2}(V_{k-}) + at(V_{k})$
 $= -t^{2}(t^{2}V_{k-}) + at(V_{k})$
 $= -t^{2}(t^{2}V_{k-} + at(V_{k}) + at(V_{k})$
 $= -t^{2}(t^{2}V_{k-} + at(V_{k-}) + at(V_{k-})$
 $= -t^{2}V_{k-} + at(V_{k-}) + at(V_{k-})$

for knot S_2 if $L_1 = S_2 = 1$ $L_2 = S_2$ & $L_3 = 3$, $t^{-1}U(S_1) - tU(S_2) = (VE - \frac{1}{JE})(t/t^2 - t^{L_1})$

=) U(s,) = (4-t3+t2-t+1