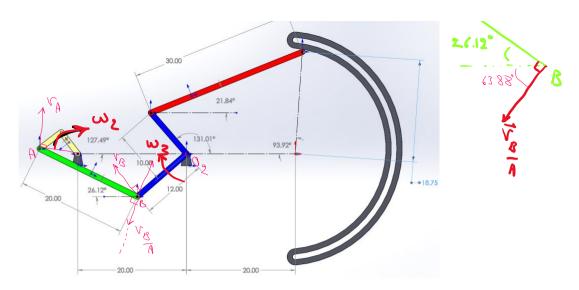


OA = 5/2 cm = 5/2 x10 m

VA = rw2 = 5/2 x 10 x 20 = 1.4142 m







$$V_{B} \left[-\cos(48.99)\hat{i} + \sin(48.99)\hat{j} \right]$$

$$= 0.1848\hat{i} + 1.4021\hat{j} + V_{B_{R}} \left[-\cos(3.88)\hat{i} - \sin(3.88)\hat{j} \right] \Rightarrow$$

$$\hat{i} \Rightarrow -V_{B}\cos48.99 + V_{B_{R}}\cos3(3.88 = 0.1848)$$

$$\hat{j} \Rightarrow V_{B}\sin48.99 + V_{B_{R}}\sin(3.88 = 1.4201)$$

$$V_{B}\sin48.99 + V_{B_{R}}\sin(3.88 = 1.4201)$$

$$V_{B} = 0.4185 \frac{m}{5} \Rightarrow V_{B} = 0.4985 \left[-\cos(48.99)\hat{i} + \sin(48.99)\hat{j} \right]$$

$$\hat{j} \Rightarrow V_{B} \sin 48.99 + V_{B_{A}} \sin (3.88 = 1.4201)$$

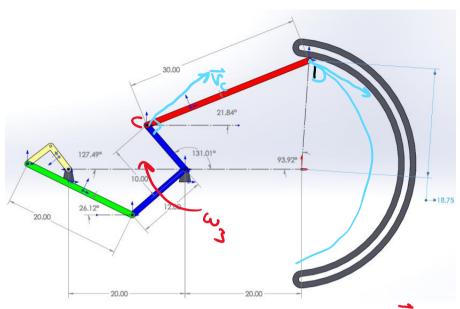
$$V_{B} = 0.4985 \frac{m}{5} \Rightarrow \vec{V}_{B} = 0.4985 \left[-\cos(48.99)\hat{i} + \sin(48.99)\hat{j} \right]$$

$$V_{B} = 1.1627 \frac{m}{5} \Rightarrow \vec{V}_{B} = 1.1627 \left[-\cos(3.88)\hat{i} - \sin(3.88)\hat{j} \right]$$

$$\Rightarrow \begin{cases} \vec{V}_{B} = -0.3271 \hat{i} + 0.3762 \hat{j} \frac{m}{S} \\ \vec{V}_{B} = -0.5119 \hat{i} - 1.0440 \hat{j} \frac{m}{S} \end{cases}$$

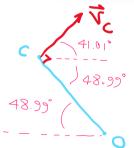
$$V_{B} = 0.4385 \xrightarrow{m} \implies \omega_{3} = \frac{V_{B}}{0.12} = \frac{0.4385}{0.12} = 4.0792 \xrightarrow{rad}$$

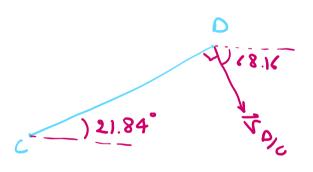
$$V_{B} = 1.1(27 \frac{m}{S} =) \omega_{AB} = \frac{V_{A/B}}{\overline{AB}} = \frac{1.1(27)}{0.2} = 5.8135 \frac{rad}{S}$$



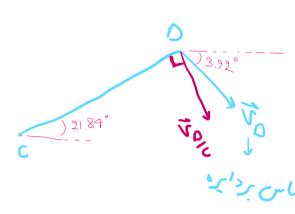
$$V_C = r\omega_3 = 0.1 \times 4.0729 = 0.40729 \frac{m}{s} \Rightarrow$$

Vc = 0.40729 [cs (41.01) i + sin (41.01) j] =





$$\overline{V}_{0} = \overline{V}_{c} + \overline{V}_{0}$$



 V_0 [$(3.92)\hat{i} = \sin(3.92)\hat{j} = 0.40729$ [$(41.01)\hat{i} + \sin(41.01)\hat{j}$]

$$\hat{i}$$
 | V_D cos 3.92 - $V_{D/C}$ cos (8.16 = 0.40 729 cos 41.01 = 5)
 \hat{i} | V_D sin 3.92 + V_D sin (8.16 = 0.40 729 sin 41.01

$$\int_{0}^{\infty} |-\nabla_{D} \sin 3.92 + \nabla_{D} \sin (8.16 = 0.4072) \sin 41.01$$

$$\int_{0}^{\infty} |-\nabla_{D} \sin 3.92 + \nabla_{D} \sin (8.16 = 0.4072) \sin 41.01$$

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$$\int_{0}^{\infty} |-\nabla_{D} \sin 3.92 + \nabla_{D} \sin (8.16 = 0.4072) \sin 41.01$$

$$\int_{0}^{\infty} |-\nabla_{D} \sin 3.92 + \nabla_{D} \sin (8.16 = 0.4072) \sin 41.01$$

$$\int_{0}^{\infty} |-\nabla_{D} \sin (8.16 = 0.4072) \sin (4.16 = 0.4072) \sin (4.16 = 0.4072)$$

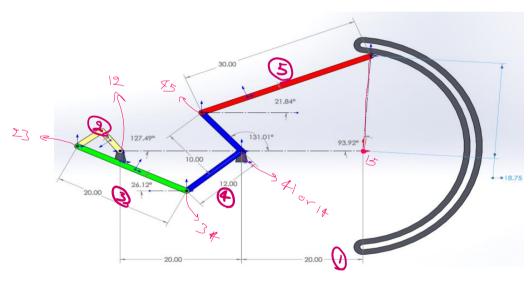
$$\int_{0}^{\infty} |-\nabla_{D} \sin (8.16 = 0.4072) \sin (4.16 = 0.4072) \sin (4.16 = 0.4072)$$

$$\int_{0}^{\infty} |-\nabla_{D} \sin (8.16 = 0.4072) \sin (4.16 = 0.4072) \sin (4.16 = 0.4072)$$

$$\int_{0}^{\infty} |-\nabla_{D} \sin (8.16 = 0.4072) \sin (4.16 = 0.4072) \sin (4.16 = 0.4072)$$

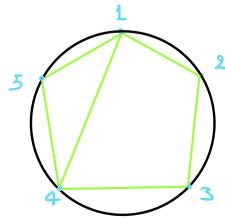
$$\int_{0}^{\infty} |-\nabla_{D} \sin (8.16 = 0.4072) \sin (4.16 = 0.4072) \sin (4.16 = 0.4072)$$

$$\Rightarrow \begin{cases} \vec{v}_{0} = 0.42(2\hat{i} - 0.0292\hat{j} - \frac{m}{5}) \\ \vec{v}_{0} = 0.1188\hat{i} - 0.2965\hat{j} - \frac{m}{5} \end{cases}$$

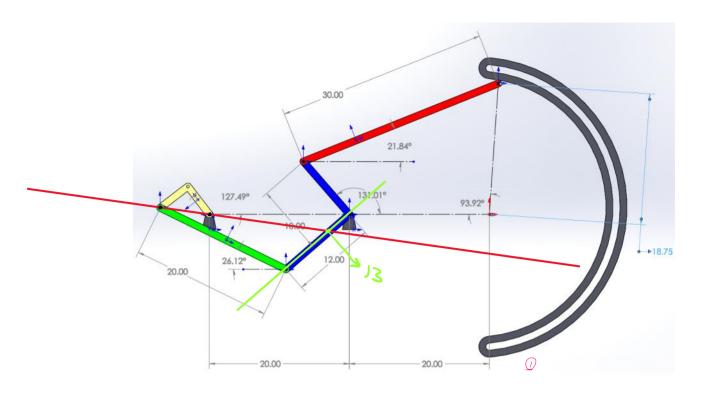


$$N=5$$

$$N = \frac{5(5-1)}{2} = 10$$

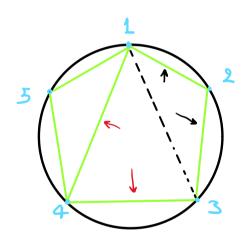


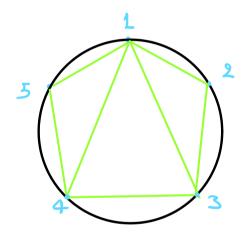
_ لملي



123 and 134

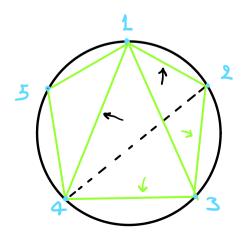
ر حله <u>ع</u>

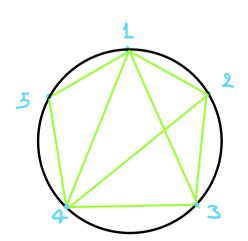


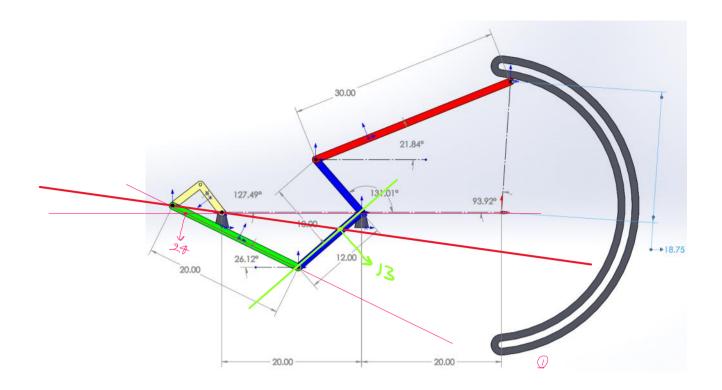


Δ Δ 124 234

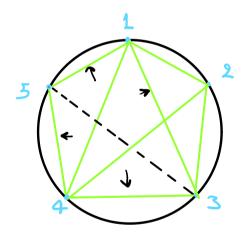
سرحله سوم

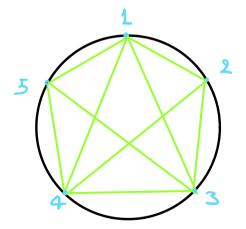


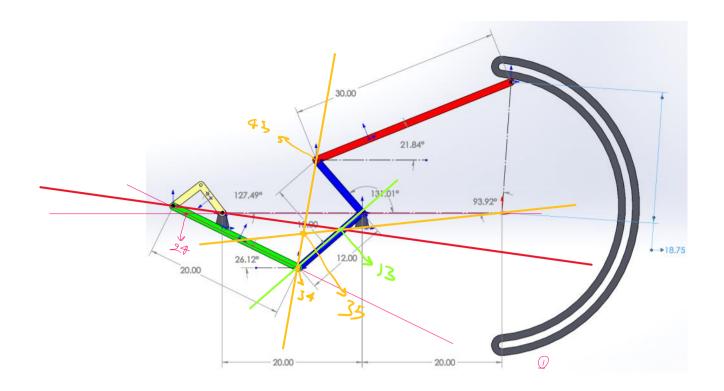




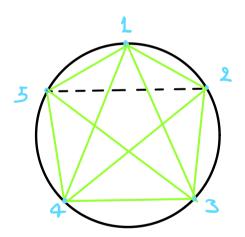
Δ Δ 135 345 مرسد 4

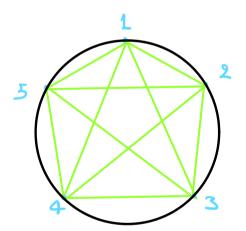


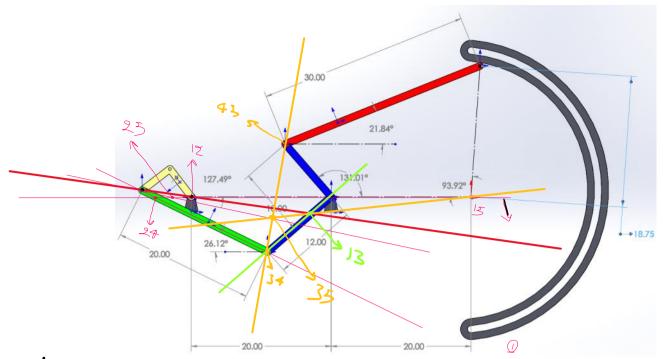




رح*ل*ہ 5







بردسل اسلا خط لش کا مسوتردارای دنت محالتر له درجدان ، فطاهایی وارد می فواهد ند در روی کاغذ این فطاها لهتر هستند.