Week HW 2, KIN PLANE 2

Plane motion, complex

Task 1 (Coding)

You should find:

1. simulate this mechanism (obtain all positions.)

2. velocities and accelerations for A, B, C, E, F, D.

3. draw plots: speed and acceleration B, C, F, E; angular speed and angular acceleration CD, CO_2, DO_3.
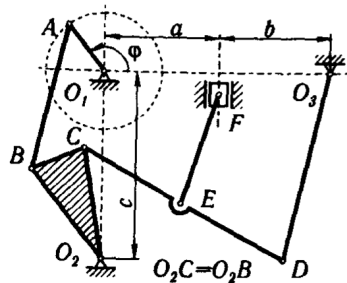
Needed variables:

$\omega_{O_1A} = 2\ rad/s$;

$\phi = 130°$; $a = 31$; $b = 30$; $c = 50$;

$O_1A = 15$; $O_2B = 30$; $O_3D = 50$; $AB = 40$; $BC = 16$;

$CD = 60$; $CE = 30$; $EF = 30..$

Task 1
(Yablonskii (rus) K4)

Deserve "A" grade!

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🚪 Room 105 (Underground robotics lab)