Лабораторная работа 5

Теоретические сведения Общее описание Scilab и xcos

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Информация

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Цель работы

Постройте с помощью хсоs фигуры Лиссажу со следующими параметрами: 1) A = B = 1, a = 2, b = 2, δ = 0; $\pi/4$; $\pi/2$; $3\pi/4$; π ; 2) A = B = 1, a = 2, b = 4, δ = 0; $\pi/4$; $\pi/2$; $3\pi/4$; π ; 3) A = B = 1, a = 2, b = 6, δ = 0; $\pi/4$; $\pi/2$; $3\pi/4$; π ; 4) A = B = 1, a = 2, b = 3, δ = 0; $\pi/4$; $\pi/2$; $3\pi/4$; π .

Выполнение лабораторной работы

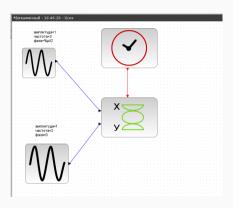


Figure 1: Пример модели в xcos

Упражнение 1

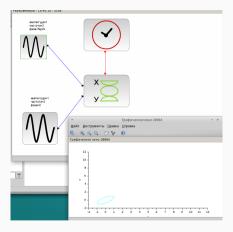


Figure 2: A = B = 1, a = 2, b = 2, $\delta = 0$;

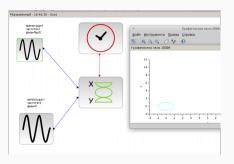


Figure 3: A = B = 1, a = 2, b = 2, $\delta = \pi/4$;

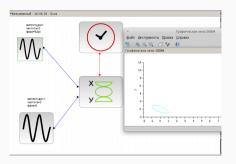


Figure 4: A = B = 1, a = 2, b = 2, $\delta = \pi/2$;

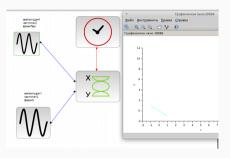


Figure 5: A = B = 1, a = 2, b = 2, δ = $3\pi/4$;

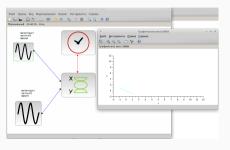


Figure 6: A = B = 1, a = 2, b = 2, $\delta = \pi$;

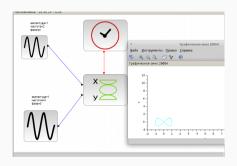


Figure 7: A = B = 1, a = 2, b = 4, $\delta = 0$;

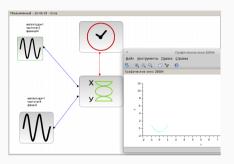


Figure 8: A = B = 1, a = 2, b = 4, $\delta = \pi/4$;

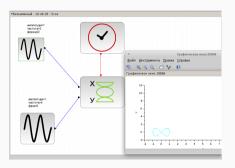


Figure 9: A = B = 1, a = 2, b = 4, $\delta = \pi/2$;

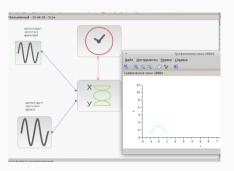


Figure 10: A = B = 1, a = 2, b = 4, $\delta = 3\pi/4$;

Упражнение

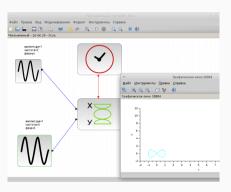


Figure 11: A = B = 1, a = 2, b = 4, $\delta = \pi$;

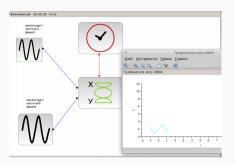


Figure 12: A = B = 1, a = 2, b = 6, $\delta = 0$;

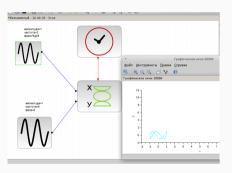


Figure 13: A = B = 1, a = 2, b = 6, $\delta = \pi/4$;

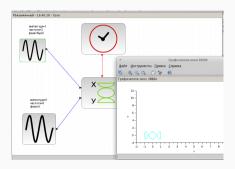


Figure 14: A = B = 1, a = 2, b = 6, $\delta = \pi/2$;

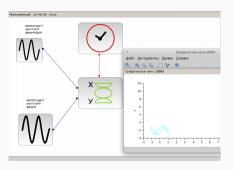


Figure 15: A = B = 1, a = 2, b = 6, $\delta = 3\pi/4$;

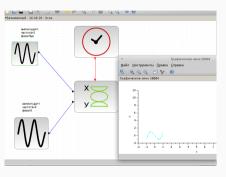


Figure 16: A = B = 1, a = 2, b = 6, $\delta = \pi$;

Упражнение 4

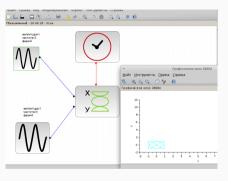


Figure 17: A = B = 1, a = 2, b = 3, δ = 0;

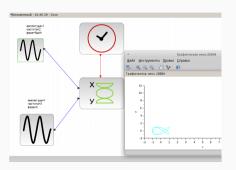


Figure 18: A = B = 1, a = 2, b = 3, $\delta = \pi/4$;

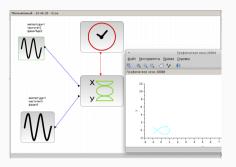


Figure 19: A = B = 1, a = 2, b = 3, $\delta = \pi/2$;

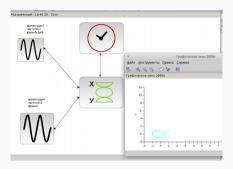


Figure 20: A = B = 1, a = 2, b = 3, $\delta = 3\pi/4$;

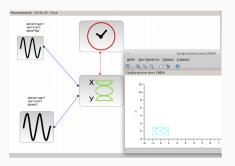


Figure 21: A = B = 1, a = 2, b = 3, $\delta = \pi$;



В процессе выполнения данной лабораторной работы получил навыки работы с программой Scilab и xcos.