Домашняя работа учени\_\_\_ 9\_\_\_ класса \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**КОЛЕБАТЕЛЬНОЕ ДВИЖЕНИЕ. ХАРАКТЕРИСТИКИ КОЛЕБАТЕЛЬНОГО ДВИЖЕНИЯ**

**Задание 1.** Заполните таблицу.

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| **ХАРАКТЕРИСТИКИ КОЛЕБАТЕЛЬНОГО ДВИЖЕНИЯ** |
| **Название** | **Период** | **Частота** |
| Определение |  |  |
| Обозначение |  |  |
| Единица измерения |  |  |
| Формула связи |  |  |

**Задание 2.** Рассмотрите рисунок и укажите, какие системы являются колебательными, а какие – нет.

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|  | *Колебательные системы* | *Не колебательные системы* |

**Задание 3.** Установите соответствие между физической величиной и единицей измерения.



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**Задание 4.** Определите длину математического маятника, если за 10 с он совершает 5 колебаний.

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**Задание 5.** Как относятся длины математических маятников, если за одно и то же время один совершил 10, а другой - 30 колебаний?

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**Задание 6.** Крылья пчелы колеблются с частотой 240 Гц. Сколько взмахов крыльями сделает пчела, пока долетит до цветочного поля, расположенного на расстоянии 500 м, если она летит со скоростью 4 м/с?

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**Задание 7.** По графику колебаний (рис. 4) определите амплитуду, период и частоту колебаний

