Задания суммативного оценивания за 3 четверть по предмету «Физика»

9 класс

Имя\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ЗАДАНИЯ

1. Два идеально упругих шара массами 3 и 2 кг движутся навстречу друг другу со скоростями 5 и 7 м/с соответственно. Рассчитайте импульс системы шаров. Первый шар после удара приобрел скорость 4 м/с. Определите скорость второго.

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1. Стрела вылетает из арбалета вертикально вверх со скоростью 60 м/с. Масса стрелы 200 г. Вычислите максимальную кинетическую энергию и высоту подъема стрелы.

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1. Материальная точка за 2,5 мин совершила 120 полных колебаний. Определите фазу в момент времени 20 с.

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1. На графике показана зависимость смещения колеблющегося тела от времени. Запишите амплитуду, период, циклическую частоту и уравнение колебания.

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| https://fhd.multiurok.ru/6/9/f/69fc8215124f4068a58008955d582c24a3df022b/php2fjL1L_KR-9-klass_4_1.png | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

1. На рисунке представлен график зависимости амплитуды вынужденных колебаний от частоты вынуждающей силы.

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| https://pandia.ru/text/81/138/images/img10_52.jpg | При какой частоте происходит резонанс? A) 3 Гц B) 1 Гц C) 1,5 Гц D) 2,5 Гц |

1. По поверхности воды в озере распространяется волна длиной 3 м со скоростью 6 м/с, вызывая колебания поплавка. Определите частоту колебаний поплавка.

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1. Запишите различие продольной и поперечной волны.

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| Поперечная волна: | Продольная волна:  |

1. Где невозможно распространение звука?

A) в масле B) в камне C) в воздухе D) в вакууме

1. Укажите источник инфразвука

A) человеческий голос B) звучание музыкального инструмента

C) землетрясения D) дельфины

1. Почему летучие мыши даже в полной темноте не натыкаются на препятствия.

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1. Установите соответствие между видом излучения и областью его применения.

ИТОГО: 20 баллов.