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

**Задание 1.** Заполните пропуски



**Задание 2.** Закон сохранение импульса для системы двух тел:

а) в векторной форме

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б) в скалярной форме

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**Задание 3.** Решите задачу.

С какой скоростью должен лететь мяч, чтобы вратарь, поймавший его, начал двигаться вместе с мячом со скоростью 0,5 м/с? Масса вратаря 60 кг, мяча – 0,5 кг.

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**Задание 4.**



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**Задание 5.** Выполните тест.









**Задание 6.**



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