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

**ИЗОТОПЫ. РАДИОАКТИВНЫЕ РАСПАДЫ**

**Задание 1.** Заполните пропуски в тексте





**Задание 2.** Определите состав ядер атомов: а) гелия ; б) алюминия ; в) фосфора .

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**Задание 3.** Сколько нуклонов, протонов, нейтронов, электронов содержат нейтральные атомы: , , , ?

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**Задание 4.** Сколько нуклонов, протонов, нейтронов, электронов содержат нейтральные атомы: , , ? Что объединяет эту группу атомов?

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**Задание 5.** Радиоактивный изотоп нептуния  испытал один α-распад. Определите массовое число нового изотопа.

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**Задание 6.** Ядро изотопа золота претерпевает β-распад. Какой заряд ядра будет у получившегося изотопа?

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**Задание 7.** Ядро урана  испытало один α- и два β-распада. Определите заряд Z и массовое число А нового элемента.

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**Задание 8.** В результате какого радиоактивного распада натрий  превращается в магний ? Запишите эту реакцию.

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**Задание 9.** Допишите недостающие символы в реакции радиоактивного распада:



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