**ОБРАЗЕЦ**

**(примерная структура)**

**контрольного теста по алгебре 8 класс**

**Критерии оценки:**

“5” – 11-12 баллов; “3” – 6-7 баллов;

“4” – 8-10 баллов; менее 6 баллов – неудовлетворительно.

**Часть 1. Обведите кружком верный ответ.**

**(За каждое верно выполненное задание – 1 балл).**

**1**. Сократите дробь $\frac{(3х-у)²}{у-3х}$.

1. у – 3х; 2) у + 3х; 3) 3х - у 4) 3х + у; 5) другой ответ.

**2.**Упростите выражение $( \frac{с^{2} }{а})^{³}$· $( \frac{а^{2}}{с^{4}} )^{²}$

1. $а$; 2)$ \frac{а}{с}$; 3) $\frac{а}{с^{2}}$; 4) $\frac{с^{2}}{а}$; 5) другой ответ.

**3.**При каком значении а тождественно равны выражения: $\frac{2х}{х+3} и 2+\frac{а}{х+3}$?

 1) 6; 2) -6; 3) 0; 4) 1,5 5) другой ответ.

**4.** Найдите значение выражения: (5$\sqrt{7}$ - $\sqrt{63}$ + $\sqrt{14}$)·$\sqrt{7}$

Ответ: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**5.** Найти сумму и произведение корней квадратного уравнения: 2x2 + 5x – 8 = 0 (по теореме Виета).

Ответ: сумма \_\_\_\_\_\_\_\_\_\_\_\_\_, произведение \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Часть 2. Выполните задание.**

**(За каждое верно и полностью выполненное задание – 2 балла)**

**6.** Избавьтесь от иррациональности в знаменателе выражения: $\frac{х}{х+\sqrt{у}}$

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**7.** Решите уравнение:$\frac{3х-1}{2}$ +$\frac{2-х}{3}$+1=0

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**8 (3 балла).** Найдите область определения функции и постройте ее график:

$$ у= \frac{36}{\left(х+1\right)^{2}- (х-1)²}$$

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