

**Сложение и вычитание  
алгебраических дробей с  
одинаковыми знаменателями**

1. При каких значениях  $x$  дробь  $\frac{x^2 - 4}{x^2 - 9}$  не имеет смысла?

2. Сократить дроби: а)  $\frac{x^2 - 4}{x^2 - 9}$

б)  $\frac{x^2 - 4}{x^2 - 9}$

в)  $\frac{x^2 - 4}{x^2 - 9}$

3. Привести дроби к одинаковому наименьшему знаменателю

$$\frac{x^2 - 4}{x^2 - 9} \quad \frac{x^2 - 4}{x^2 - 9}$$

2. In the case of a contract with a duration of 24 months, the price for the first 12 months is €100,000. The price for the second 12 months is €110,000. The price for the third 12 months is €120,000. The price for the fourth 12 months is €130,000. The price for the fifth 12 months is €140,000. The price for the sixth 12 months is €150,000. The price for the seventh 12 months is €160,000. The price for the eighth 12 months is €170,000. The price for the ninth 12 months is €180,000. The price for the tenth 12 months is €190,000. The price for the eleventh 12 months is €200,000. The price for the twelfth 12 months is €210,000.

3. In the case of a contract with a duration of 24 months, the price for the first 12 months is €100,000. The price for the second 12 months is €110,000. The price for the third 12 months is €120,000. The price for the fourth 12 months is €130,000. The price for the fifth 12 months is €140,000. The price for the sixth 12 months is €150,000. The price for the seventh 12 months is €160,000. The price for the eighth 12 months is €170,000. The price for the ninth 12 months is €180,000. The price for the tenth 12 months is €190,000. The price for the eleventh 12 months is €200,000. The price for the twelfth 12 months is €210,000.

This image shows a page of musical notation for a string quartet. It consists of four staves, each representing a different instrument. The notation includes various musical symbols such as notes, rests, and bar lines. The first staff is the most complex, featuring many sixteenth and thirty-second notes. The second staff has a more rhythmic pattern with many eighth notes. The third staff is a simple bass line with few notes. The fourth staff is a simple treble line with few notes. The music is written in a standard musical notation style with a key signature of one flat and a time signature of 4/4.

**В классе: § 3, № 2,4,5,7 (аб)**

**Домашнее задание: § 3, № 2,4,5,7 (аб)**

1. Докажите, что выражение

$$\frac{a^2 + 2a + 1}{a^2 - 4} \cdot \frac{a^2 - 2a + 1}{a^2 + 2a - 3} \cdot \frac{a^2 - 1}{a^2 + 2a + 1}$$

при всех значениях  $a \neq 2$  принимает  
положительные значения.

2. Представьте в виде суммы или разности  
целого выражения и дроби дробь:

а)  $\frac{a^2 + 3a + 2}{a^2 - 4}$

б)  $\frac{a^2 - 2a + 1}{a^2 - 4}$

в)  $\frac{a^2 + 2a - 3}{a^2 - 4}$