

MATEMATIKA 1**- A-****3.TEST****Razred:** _____**Ime in Priimek:** _____**Datum:** _____**Kriterij:****0-14 (1) 15-18 (2) 19-22 (3) 23- 26(4) 27-30(5)****Poenostavi izraze:**

$$1. \left(a(a+3)^{-1} - \frac{3a+10}{a^3+3a} \right) \cdot \frac{a^2+6a+9}{a^2-25} =$$

4T

$$2. \frac{1 - \frac{x}{x-y}}{\frac{y}{x} - \frac{y}{x-y}} + \frac{x^2}{y^2 - xy} =$$

5T

$$3. \left(5a^3b^{-4} \right)^{-2} \cdot \left(-a^{-1}b^{-2} \right)^3 =$$

3T

$$4. \left(3,\bar{3} + 0,91\bar{6} \right) - \frac{2}{9} \div \frac{1}{6} =$$

3T

$$5. \left(2^{-1} - 6a^{-1} + 18a^{-2} \right) \cdot \frac{2a^2 - 4a}{a-6} \div \left(a - 36a^{-1} \right) =$$

5T

$$6. \left(\frac{x-4}{x-3} - \frac{10-x}{x^2-3x} \right) \div \frac{x^2-4}{x^2-6x+9}$$

5T

$$7. \frac{24}{x^2-2x-8} + \frac{x^2+2x-8}{x^3+4x^2-4x-16} - \frac{x^2-4x-32}{16-x^2}$$

5T

$$8. \text{ Dodatna naloga: } \left(\frac{x^3+1}{1-x^2} + \frac{x-x^2}{1-x} \right)^2 \cdot \frac{1-x^2}{1+y} \div \frac{x+x^2}{y-y^3}$$

3T

MATEMATIKA 1**- B-****3.TEST****Razred:**_____**Ime in Priimek:**_____**Datum:**_____**Kriterij:****0-14 (1) 15-18 (2) 19-22 (3) 23- 26(4) 27-30(5)****Poenostavi izraze :**

$$1. \left(\frac{2}{a^2 - 7a} - \frac{1}{a^2 - 2a - 35} \right) \cdot \frac{a^3 - 25a}{a + 10} =$$

4T

$$2. \frac{a^2 - a + 6}{a^2 - 2a - 8} + 2a(4 - a)^{-1} \div \frac{a + 6}{a^2 + 2a} =$$

5T

$$3. \frac{\frac{a}{x} - \frac{a}{a+x}}{1 - \frac{x-a}{x}} - \frac{1}{a} \div \left(\frac{1}{a} - \frac{1}{x} \right) =$$

5T

$$4. (a - 9a^{-1}) \cdot \frac{a + 2}{5a^2 - 15a} \div \left(\frac{1}{5} + \frac{6a^{-1}}{5} + \frac{9a^{-2}}{5} \right) =$$

5T

$$5. (-2a^3b^{-1})^5 \cdot (a^2b^{-3})^{-3} =$$

3T

$$6. (3,\bar{3} + 0,91\bar{6}) - \frac{2}{9} \div \frac{1}{6} =$$

3T

$$7. \frac{x^2 + 2x - 8}{x^3 + 4x^2 - 4x - 16} - \frac{x^2 - 4x - 32}{16 - x^2} + \frac{24}{x^2 - 2x - 8}$$

5T

$$8. \text{Dodatna naloga : } \left(\frac{a^3 + 1}{1 - a^2} + \frac{a - a^2}{1 - a} \right)^2 \cdot \frac{1 - a^2}{1 + b} \div \frac{a + a^2}{b - b^3} =$$

3T