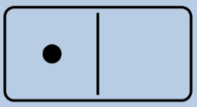
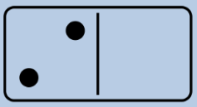
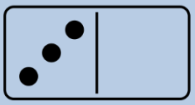
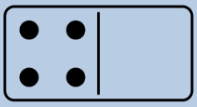
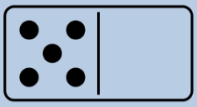
DOMAĆA ZADAĆA	**7.2 – 1. zadaćnica**				
ROK PREDAJE	**7.a - četvrtak 3.12.2026.** **7.b - petak 4.12.2026.**				
UPUTE	**Domaću zadaću predajete napisane u zadaćnici, najbolje matematičkoj iako ću prihvaćati i ostale vrste zadaćnica. Ne uzimam bilježnice, papire i tome slično niti naknadno predane zadaće preko Teamsa ili maila.** **Ime i prezime napišite na naslovnice zadaćnice u gornjem desnom kutu (može biti i na naljepnici) ili na prostoru na naslovnici zadaćnice koji je tome i namijenjen. Nepotpisane zadaćnice se neće ni pregledavati.** **Tekst zadatka se piše kemijskom olovkom crne ili plave boje, dok se rješenja s postupkom pišu grafitnom ili tehničkom olovkom. Rješenja zadataka uokvirite kemijskom olovkom crne ili plave boje.** **Ne priznajem izrezane tekstove zadataka.** **Tekstove zadatka prepišite, a bilo kakve slike precrtajte geometrijskim priborom što je točnije moguće. Ne priznajem izrezane i zaljepljene slike.** **Zadaćnice predane nakon zadanog roka se neće pregledavati osim u slučaju opravdanog razloga.** **Pitanja vezano za zadaću šaljite na mail:** **sinisa.pogacic@gmail.com**				
BODOVNA SKALA	**76 - 84**	**63 - 75**	**50 - 62**	**38 - 49**	**0 - 37**
BODOVI ZA TEST	**4**	**3**	**2**	**1**	**0**

	Algebarski izrazi i potencije
	**Izračunaj vrijednost izraza** $7x - 3$ **ako je:** **a)** $x = -\frac{2}{5}$ **b)** $x = 2\frac{2}{3}$
	**Izračunaj vrijednost izraza** $4x^2 - 2x + 6$ **ako je:** **a)** $x = 2$ **b)** $x = -1\frac{3}{4}$ **c)** $x = \frac{3}{5}$ **d)** $x = -0.7$
	**Pomnoži i pojednostavi:** **a)** $(x + 3)(3x - 2) - (4x + 6)(x + 1)$ **b)** $- (2x + 5)(x + 4) - (x + 2)(2x + 11)$ **c)** $(x + 6)(3x - 1) + (2x - 1)(4x + 3)$ **d)** $(x + 2)(4x - 1) + (x - 10)(- x - 4)$ **e)** $2(x - 1)(2x + 3) + (3x + 1)(2x - 5)$ **f)** $4(x + 1)(x - 2) - (2x + 2)(3x - 3)$
	**Dane potencije napiši kao razlomak i kao decimalni broj:** **a)** 10^{-4} **b)** -10^{-5} **c)** $(-10)^{-6}$ **d)** $-(-10)^{-7}$ **Zadane decimalne brojeve zapiši u obliku razlomka, te ih nakon toga zapiši kao potencije s bazom 10 i negativnim cjelobrojnim eksponentom:** **e)** - 0.0001 **f)** 0.01 **g)** - 0.0000001 **h)** 0.00000000001



Izračunaj te rezultat zapiši u obliku potencije s bazom 10:

a) $10^{71} : 10^{39}$

b) $10^{36} \cdot 10^{33} \cdot 10^{30}$

c) $10^{52} \cdot 10^{78} \cdot 10^{12} \cdot 10$

d) $(10^{3})^{14} \cdot 10^{-89} : 10^{-27}$

e) $(10^{2})^{16} \cdot 10^{-87} : 10^{-31}$

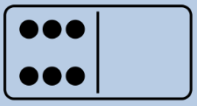
f) $10^{-51} \cdot 10^{31} : (10^{21})^{3}$

g) $10^{22} \cdot 10^{-33} : 10^{44}$

h) $(10^{31})^{3} \cdot 10^{-21} : 10^{-111}$

i) $(10^{45})^{-2} \cdot 10^{-25} : 10^{-108}$

j) $(10^{36})^{2} \cdot (10^{-46})^{5} : (10^{66})^{-7}$



Napiši u znanstvenom zapisu:

a) $967 \cdot 10^{14}$

b) $1\,204 \cdot 10^{72}$

c) $43\,100 \cdot 10^{101}$

d) $421 \cdot 10^{-87}$

e) $61\,070 \cdot 10^{-42}$

f) $1\,540\,302 \cdot 10^{-205}$

g) $0.666 \cdot 10^{88}$

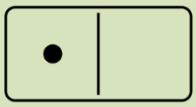
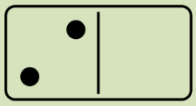
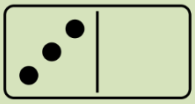
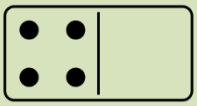
h) $0.00944 \cdot 10^{27}$

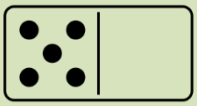
i) $0.0701 \cdot 10^{71}$

j) $0.11 \cdot 10^{-201}$

k) $0.00999 \cdot 10^{-25}$

l) $0.00118188 \cdot 10^{-79}$

	Jednadžbe s jednom nepoznanicom
	**Riješi jednadžbu i odredi kojem skupu pripada rješenje:** **a)** $2x = 3x - 5$ **b)** $4x = 13 - 2x$
	**Riješi jednadžbu i odredi kojem skupu pripada rješenje:** **a)** $3x = -2x - 11$ **b)** $-2x = 17 + 5x$ **c)** $-x = 12 + 4x$ **d)** $-8x = 21 + 10x$
	**Riješi jednadžbu i odredi kojem skupu pripada rješenje:** **a)** $4x = 12 + x$ **b)** $-6x = 3x + 28$ **c)** $10x + 6 = 4x$ **d)** $-3x - 25 = 8x$ **e)** $6x = 27 + 4x$ **f)** $-8x + 29 = -2x$
	**Riješi jednadžbu i odredi kojem skupu pripada rješenje:** **a)** $9x + 28 = 12 + 4x$ **b)** $-x - 23 = -25 + 4x$ **c)** $3x + 12 + 2x = -16$ **d)** $2x - 44 + 3x = 12$ **e)** $-3x = 11 + 4x - 36$ **f)** $2x - 8 = -3x - 41$ **g)** $7x = -18 + 101 + 15x$ **h)** $-11x - 17 = -3x - 29$



Riješi jednadžbu i odredi kojem skupu pripada rješenje:

a) 4x - 2 + 3x = -15 - 6x

b) 2x - 22 - 4x = 19 + 3x

c) 10x - 17 + 5x = 23 - 5x

d) -9x - 2 = 4x + 20 + 2x

e) 2x - 14 + 22x = 25x - 13

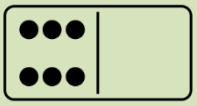
f) 4x - 16 + 7x = 8x - 21

g) 3x - x - 21 = 17 + 4x

h) 7x - 19 + 10x = 18 + x

i) 3x - 29 = 2 - 4x + x

j) 7x - 18 = -3 - 2x + 3x



Riješi jednadžbu i odredi kojem skupu pripada rješenje:

a) 7x - 11 - 2x = 3x - 12 - 5x

b) 8 - 2x + 13 = x + 15 + 4x

c) 9x - 18 + x = 7x + 29 + 13

d) 3x - 17 - 9x = 10 - 11x + 2

e) 7x - 8 + 4x = - 10x + 2 + x

f) 9 + 9x - 19 = 9 - 4x - 7x

g) 16 - x - x = 27 - 2x + 3x

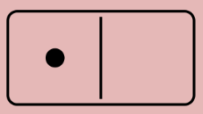
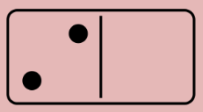
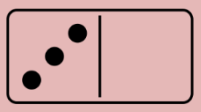
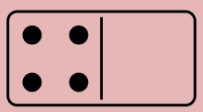
h) 9 - 2x - 20 = 31 - 2 + 4x

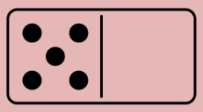
i) 6x - 18 + 9x = 1 - x + 2x

j) 8x - 4 - 7x = 5 - 7x + 6

k) 3x - 9 - 1 = 12x - 4 + 15

l) 3x - 8x - 10x = 4x - 7x + 8x

	Jednadžbe i zagrade
	**Riješi jednadžbu i odredi kojem skupu pripada rješenje:** **a)** 2x - (3x + 1) = 4 **b)** -5 + (4x - 2) = 6
	**Riješi jednadžbu i odredi kojem skupu pripada rješenje:** **a)** 6 - (4 + 2x) = 17 **b)** 2x - (3 + 6x) = 8 **c)** 3 + (7 + 2x) = 9 **d)** 5x + (9 + 10x) = 1
	**Riješi jednadžbu i odredi kojem skupu pripada rješenje:** **a)** 8 - (2x + 1) = -9 + (3x + 2) **b)** 7x + (3 + 4x) = 4 + (5 + 4x) **c)** -5 - (8 + 2x) = 6 + (x + 3) **d)** (8 + 2x) + 4 = 3 - (5 - x) **e)** -9 + (4 + 5x) = -6 - (8x - 2) **f)** 5 + (2 + x) = (3x + 1) - 9
	**Riješi jednadžbu i odredi kojem skupu pripada rješenje:** **a)** (5 - 2x) + (3 - 4x) = (7 + 2x) **b)** (3x - 3) + (7x - 4) = -(5 - x) **c)** (8 - x) - (7x - 4) = (2x + 1) **d)** (2x + 1) + (3x - 1) = -(4x + 1) **e)** -(6 - 2x) + (3 - x) = -(7x - 2) **f)** -(2x - 1) + (3x - 1) = - (2 + 4x) **g)** -(2x - 2) - (3x + 3) = -(4x - 4) **h)** -(4 + 2x) + (8 + 2x) = -(7 + 3x)



Riješi jednadžbu i odredi kojem skupu pripada rješenje:

a) $-2(-3x - 2) = -2x + 2$

b) $4(3 + 2x) = 3x + 2$

c) $7(4 + x) = 9 - 2x$

d) $-3(2x - 4) = -7x - 3$

e) $-4(6 + 3x) = 2 - x$

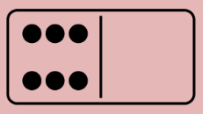
f) $8 - 2x = 4(3x + 5)$

g) $9 + x = -3(5 + 3x)$

h) $8 - 3x = -2(8 - 3x)$

i) $9 = 2(4 + 3x) + 7$

j) $3x = -4(-2 + x) - 9$



Riješi jednadžbu i odredi kojem skupu pripada rješenje:

a) $7(2 + 3x) = 4(6 + 3x)$

b) $-8(x + 4) = -2(5x + 1)$

c) $3(3 - 2x) = 9(4x - 1)$

d) $-6(4x - 2) = -(3x - 2)$

e) $(5 - 2x) = -3(x + 8)$

f) $-4(9 + 2x) = -8(4 - 2x)$

g) $2(4 + x) - 4(-3 + 2x) = -6(2x - 4)$

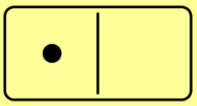
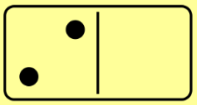
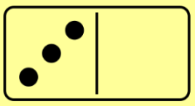
h) $5(3x + 1) - 3(4 - x) = -2(5x - 1)$

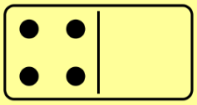
i) $-2(4 - x) + 2(5x + 1) = -(4x - 1)$

j) $2(3 + x) + (8 - 2x) = 5(x - 1) + 2(x - 1)$

k) $6(x - 1) - 5(x + 1) = 4(1 + x) + 3(1 + x)$

l) $-(3x + 2) - 2(4 + x) = 7(x + 1) - 9(2x + 1)$

	Jednadžbe i razlomci
	**Riješi jednadžbu i odredi kojem skupu pripada rješenje:** **a)** $\frac{x}{8} = -5$ **b)** $\frac{x}{3} = 4$
	**Riješi jednadžbu i odredi kojem skupu pripada rješenje:** **a)** $\frac{x}{5} - 2 = 17$ **b)** $\frac{x}{4} - 3 = -9$ **c)** $\frac{x}{2} + 7 = 11$ **d)** $\frac{x}{3} + 2 = -20$
	**Riješi jednadžbu i odredi kojem skupu pripada rješenje:** **a)** $\frac{2x}{3} - 5 = 1$ **b)** $\frac{3x}{4} - 9 = 0$ **c)** $\frac{3x}{5} - 2 = 4$ **d)** $\frac{5x}{6} + 3 = 2$ **e)** $\frac{2x}{7} - 2 = 5$ **f)** $\frac{2x}{4} - 1 = -6$



Riješi jednadžbu i odredi kojem skupu pripada rješenje:

a) $\frac{x}{3} + \frac{x}{4} = -1$

b) $\frac{x}{4} - \frac{x}{5} = -2$

c) $\frac{3x}{8} + \frac{x}{4} = -3$

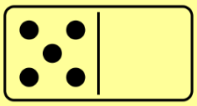
d) $\frac{2x}{5} + \frac{x}{2} = 4$

e) $\frac{x}{3} - 2x = 3$

f) $\frac{3x}{7} + x = 4$

g) $\frac{2x}{5} + 3x = -6$

h) $\frac{2x}{5} - 4x = 7$



Riješi jednadžbu i odredi kojem skupu pripada rješenje:

a) $\frac{5x+28}{9} = -7$

b) $\frac{3x-1}{8} = 6$

c) $\frac{-2x-3}{7} = -5$

d) $\frac{5x-6}{6} = -4$

e) $\frac{2x+14}{5} = -3$

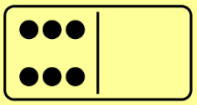
f) $\frac{3x+2}{4} = -\frac{2}{3}$

g) $\frac{-2x-5}{3} = -\frac{7}{8}$

h) $\frac{5x-1}{2} = -\frac{7}{4}$

i) $\frac{6-2x}{3} = -\frac{3}{5}$

j) $\frac{4x+13}{8} = -\frac{5}{6}$



Riješi jednadžbu i odredi kojem skupu pripada rješenje:

a) $\frac{3x-4}{6} = -\frac{3x}{8}$

b) $\frac{6x-2}{5} = -\frac{2x}{4}$

c) $\frac{2x-4}{3} = \frac{x}{8}$

d) $\frac{3x-1}{5} = \frac{5x}{6}$

e) $\frac{3x-2}{4} = \frac{4+2x}{6}$

f) $\frac{-3x+2}{4} = \frac{8-3x}{3}$

g) $\frac{4-x}{6} = \frac{4+x}{5}$

h) $\frac{8x-2}{7} = \frac{-x+6}{3}$

i) $\frac{x}{8} + \frac{3x-2}{6} = \frac{-5x-1}{4}$

j) $-\frac{6x}{5} + \frac{3x-2}{10} = \frac{-4x-1}{2}$

k) $\frac{2-x}{4} - \frac{3x-4}{6} = \frac{-5-2x}{8}$

l) $\frac{4x-1}{6} - \frac{5x+1}{4} = \frac{-5+x}{12}$