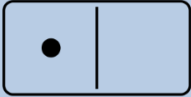
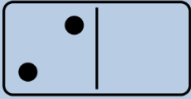
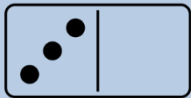
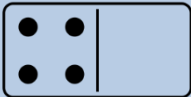
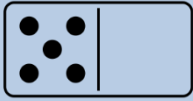


DOMAĆA ZADAĆA	8.1 – 2. web dz				
ROK PREDAJE	Petak, 28.11.2025.				
UPUTE	<p>Domaću zadaću predajete napisane u zadaćnici, najbolje matematičkoj iako ću prihvaćati i ostale vrste zadaćnica. Ne uzimam bilježnice, papire i tome slično niti naknadno predane zadaće preko Teamsa ili maila.</p> <p>Ime i prezime 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.</p> <p>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.</p> <p>Tekstove zadatka prepišite, a bilo kakve slike precrtajte geometrijskim priborom što je točnije moguće. Ne priznajem izrezane i zaljepljene slike.</p> <p>Zadaćnice predane nakon zadanog roka se neće pregledavati osim u slučaju opravdanog razloga.</p> <p>Pitanja vezano za zadaću šaljite na mail: sinisa.pogacic@gmail.com</p>				
BODOVNA SKALA	76 - 84	63 - 75	50 - 62	38 - 49	0 - 37
BODOVI ZA TEST	4	3	2	1	0

	Drugi korijen
	<p>a) Što je radikand? b) Što je vrijednost korijena?</p>
	<p>Pronađi greške i ispravi ih: a) $\sqrt{144} = 13$ b) $\sqrt{9} = 81$ c) $\sqrt{265} = 16$ d) $\sqrt{324} = 1.8$</p>
	<p>Izračunaj: a) $\sqrt{\frac{28}{63}}$ b) $\sqrt{\frac{108}{300}}$ c) $\sqrt{5\frac{4}{9}}$ d) $\sqrt{3\frac{6}{25}}$ e) $\sqrt{8.41}$ f) $\sqrt{0.0196}$</p>
	<p>Izračunaj: a) $\sqrt{12^2 + 9^2}$ b) $\sqrt{15^2 - 12^2}$ c) $\sqrt{16} - \sqrt{\frac{4}{9}}$ d) $\sqrt{64} + \sqrt{\frac{16}{25}}$ e) $\sqrt{\frac{16}{25}} - \sqrt{\frac{1}{4}}$ f) $\sqrt{2\frac{7}{9}} + \sqrt{2\frac{1}{4}}$ g) $\sqrt{12 - 13 + 17} - \sqrt{100 - 19}$ h) $\sqrt{1 + 3 + 5} + \sqrt{25 - 16}$</p>



Izračunaj:

a) $2\sqrt{2} + 3\sqrt{2}$

b) $4\sqrt{3} - 5\sqrt{3}$

c) $-7\sqrt{5} + 2\sqrt{5} + 2\sqrt{5} - 3\sqrt{5}$

d) $-9\sqrt{6} + 13\sqrt{6} + 6\sqrt{6} + 13\sqrt{6}$

e) $2.6\sqrt{7} + 3\sqrt{7} - 4.4\sqrt{7}$

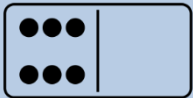
f) $-3.87\sqrt{8} + 5.61\sqrt{8} - 4.14\sqrt{8}$

g) $\frac{1}{2}\sqrt{10} - \frac{1}{4}\sqrt{10}$

h) $-\frac{3}{4}\sqrt{11} + \sqrt{11}$

i) $2\sqrt{12} + 3\sqrt{13} - 6\sqrt{12} + 7\sqrt{13}$

j) $-\sqrt{14} + 5\sqrt{15} - 6\sqrt{14} + 17\sqrt{17} - 9\sqrt{15} + \sqrt{17}$



Izračunaj:

a) $2(\sqrt{3} - \sqrt{2}) - 3(\sqrt{3} + \sqrt{2})$

b) $-5(-\sqrt{3} - \sqrt{2}) + 7(\sqrt{3} - \sqrt{2})$

c) $4(2\sqrt{3} - 3\sqrt{2}) + 6(-4\sqrt{3} + 2\sqrt{2})$

d) $-7(5\sqrt{3} + 4\sqrt{2}) - 3(-3\sqrt{3} + 2\sqrt{2})$

e) $4(-3\sqrt{3} - \sqrt{2}) - 3(-3\sqrt{3} - \sqrt{2}) + 2(6\sqrt{3} + 7\sqrt{2})$

f) $-(\sqrt{2} + 2\sqrt{2}) + (-13\sqrt{3} + 14\sqrt{2}) + 3(16\sqrt{2} + 17\sqrt{3})$

g) $-3(\sqrt{3} + 5\sqrt{3}) - (-3\sqrt{3} + 15\sqrt{3}) + 3(6\sqrt{2} - 17\sqrt{2})$

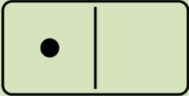
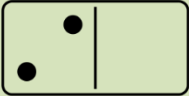
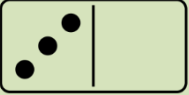

h) $6(2\sqrt{3} - 2\sqrt{2}) - 5(-3\sqrt{3} - 3\sqrt{2}) + 4(4\sqrt{2} - 4\sqrt{3})$

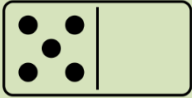
i) $2(\sqrt{3} + \sqrt{2}) - 3(-\sqrt{3} - \sqrt{2}) + 4(\sqrt{3} - \sqrt{2}) - 5(-\sqrt{3} + \sqrt{2})$

j) $-(3\sqrt{3} - 4\sqrt{2}) + (-2\sqrt{3} - 3\sqrt{2}) + (6\sqrt{3} - 7\sqrt{2}) - (-8\sqrt{3} + 10\sqrt{2})$

k) $3(\sqrt{3} + \sqrt{3}) - 3(-\sqrt{2} - \sqrt{2}) + 2(\sqrt{2} - \sqrt{2}) - (-\sqrt{3} + \sqrt{3})$

l) $6(-5\sqrt{3} - 4\sqrt{2}) - 7(-8\sqrt{3} - 9\sqrt{2}) + 8(7\sqrt{3} - 6\sqrt{2}) - 9(-10\sqrt{3} + 11\sqrt{2})$

Množenje i dijeljenje s korijenima	
	<p>Izračunaj:</p> <p>a) $\sqrt{64 \cdot 81}$</p> <p>b) $\sqrt{121 \cdot 225}$</p>
	<p>Izračunaj:</p> <p>a) $\sqrt{16 \cdot 25 \cdot 81}$</p> <p>b) $\sqrt{121 \cdot 100 \cdot 64}$</p> <p>c) $\sqrt{49 \cdot 256 \cdot 121}$</p> <p>d) $\sqrt{169 \cdot 196 \cdot 144 \cdot 361}$</p>
	<p>Brojeve rastavi na proste faktore, pa snalažljivo združi:</p> <p>a) $\sqrt{27 \cdot 12}$</p> <p>b) $\sqrt{98 \cdot 18}$</p> <p>c) $\sqrt{20 \cdot 80}$</p> <p>d) $\sqrt{2 \cdot 200 \cdot 49}$</p> <p>e) $\sqrt{49 \cdot 150 \cdot 24}$</p> <p>f) $\sqrt{16 \cdot 64 \cdot 256}$</p>
	<p>Izračunaj:</p> <p>a) $\sqrt{\frac{9}{25}}$</p> <p>b) $\sqrt{\frac{81}{100}}$</p> <p>c) $\sqrt{\frac{484}{225}}$</p> <p>d) $\sqrt{\frac{576}{961}}$</p> <p>e) $\sqrt{0.09}$</p> <p>f) $\sqrt{0.25}$</p> <p>g) $\sqrt{0.0004}$</p> <p>h) $\sqrt{5.29}$</p>



Izračunaj:

a) $\sqrt{2} \cdot \sqrt{8}$

b) $\sqrt{27} \cdot \sqrt{3}$

c) $\sqrt{5} \cdot \sqrt{80}$

d) $\sqrt{12} \cdot \sqrt{75}$

e) $\sqrt{44} \cdot \sqrt{11}$

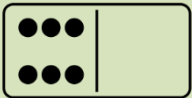
f) $\sqrt{240} : \sqrt{15}$

g) $\sqrt{475} : \sqrt{19}$

h) $\sqrt{207} : \sqrt{23}$

i) $\sqrt{1458} : \sqrt{18}$

j) $\sqrt{4606} : \sqrt{94}$



Izračunaj:

a) $\sqrt{28} \cdot \sqrt{3} : \sqrt{21}$

b) $\sqrt{171} \cdot \sqrt{2} : \sqrt{38}$

c) $\sqrt{66} : \sqrt{33} \cdot \sqrt{8}$

d) $\sqrt{2375} : \sqrt{19} \cdot \sqrt{5}$

e) $\sqrt{3024} : \sqrt{7} : \sqrt{12}$

f) $\sqrt{3528} : \sqrt{8} : \sqrt{9}$

g) $\sqrt{2\frac{2}{3}} \cdot \sqrt{3\frac{3}{8}}$

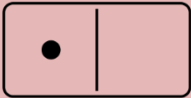
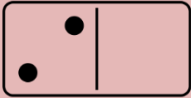
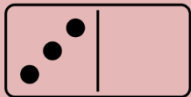
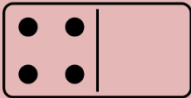
h) $\sqrt{\frac{9}{8}} \cdot \sqrt{\frac{2}{3}} \cdot \sqrt{12}$

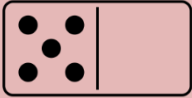
i) $\sqrt{\frac{2}{3}} \cdot \sqrt{0.6} \cdot \sqrt{\frac{125}{2}}$

j) $\sqrt{\frac{4}{7}} \cdot \sqrt{\frac{7}{24}} : \sqrt{\frac{1}{6}}$

k) $\sqrt{\frac{4}{3}} \cdot \sqrt{\frac{3}{5}} : \sqrt{3\frac{1}{5}}$

l) $\sqrt{\frac{1}{8}} : \sqrt{2\frac{3}{5}} \cdot \sqrt{\frac{26}{45}}$

	Djelimično korjenovanje i racionalizacija nazivnika
	<p>Djelomično korjenuj:</p> <p>a) $\sqrt{12}$</p> <p>b) $\sqrt{27}$</p>
	<p>Djelomično korjenuj:</p> <p>a) $\sqrt{32}$</p> <p>b) $\sqrt{44}$</p> <p>c) $\sqrt{45}$</p> <p>d) $\sqrt{63}$</p>
	<p>Djelomično korjenuj:</p> <p>a) $\sqrt{72}$</p> <p>b) $\sqrt{75}$</p> <p>c) $\sqrt{98}$</p> <p>d) $\sqrt{147}$</p> <p>e) $\sqrt{180}$</p> <p>f) $\sqrt{200}$</p>
	<p>Djelomično korjenuj, pa reduciraj:</p> <p>a) $6\sqrt{12} - 2\sqrt{27}$</p> <p>b) $3\sqrt{28} - 5\sqrt{63}$</p> <p>c) $3\sqrt{8} - 2\sqrt{32} + 4\sqrt{50}$</p> <p>d) $-2\sqrt{75} + 4\sqrt{48} + 3\sqrt{12}$</p> <p>e) $(2\sqrt{8} - 3\sqrt{2}) : \sqrt{2}$</p> <p>f) $(3\sqrt{6} - \sqrt{24} - 4\sqrt{54}) : \sqrt{6}$</p> <p>g) $(4\sqrt{18} - 2\sqrt{50} + 3\sqrt{98}) \cdot \sqrt{2}$</p> <p>h) $(-\sqrt{45} + 3\sqrt{80} - 4\sqrt{125}) \cdot \sqrt{5}$</p>



Racionaliziraj nazivnike razlomaka:

a) $\frac{1}{\sqrt{3}}$

b) $-\frac{1}{\sqrt{5}}$

c) $\frac{2}{\sqrt{2}}$

d) $-\frac{3}{\sqrt{7}}$

e) $\frac{6}{\sqrt{3}}$

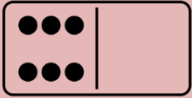
f) $\frac{3}{\sqrt{6}}$

g) $\frac{1}{3\sqrt{2}}$

h) $-\frac{1}{2\sqrt{3}}$

i) $\frac{15}{2\sqrt{5}}$

j) $\frac{3}{2\sqrt{6}}$



Racionaliziraj nazivnike razlomaka:

a) $\frac{\sqrt{2}}{\sqrt{5}}$

b) $\frac{\sqrt{7}}{\sqrt{3}}$

c) $\frac{8\sqrt{3}}{\sqrt{2}}$

d) $\frac{15\sqrt{7}}{\sqrt{5}}$

e) $\frac{2+\sqrt{3}}{\sqrt{3}}$

f) $\frac{\sqrt{7}+14}{\sqrt{7}}$

g) $\frac{\sqrt{5}-4}{\sqrt{5}}$

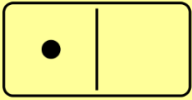
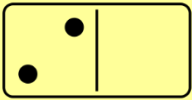
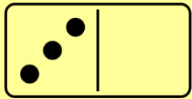
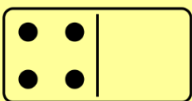
h) $\frac{7-\sqrt{3}}{\sqrt{3}}$

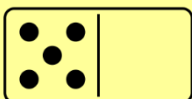
i) $\frac{4}{\sqrt{5}-\sqrt{3}}$

j) $\frac{9}{\sqrt{11}-\sqrt{7}}$

k) $\frac{6}{\sqrt{5}+\sqrt{2}}$

l) $\frac{10}{\sqrt{7}+\sqrt{2}}$

Kvadratna jednadžba	
	Izračunaj: a) $(\sqrt{3})^2$ b) $(-2\sqrt{7})^2$
	Izračunaj: a) $\sqrt{3}(4 - \sqrt{3})$ b) $\sqrt{7}(6 + \sqrt{5})$ c) $(5 - \sqrt{7}) \cdot \sqrt{6}$ d) $(8 + \sqrt{3}) \cdot \sqrt{5}$
	Izračunaj: a) $(\sqrt{2} - 1)(\sqrt{2} + 3)$ b) $(\sqrt{3} + 5)(\sqrt{5} + 6)$ c) $(5 - \sqrt{7})(4 - \sqrt{6})$ d) $(\sqrt{3} - \sqrt{2})(\sqrt{3} + \sqrt{2})$ e) $(\sqrt{2} - \sqrt{3})(2\sqrt{3} + 3\sqrt{2})$ f) $(3\sqrt{2} - \sqrt{5})(5 + 3\sqrt{2})$
	Izračunaj: a) $(\sqrt{2} + 1)^2$ b) $(\sqrt{7} - 3)^2$ c) $(4 + \sqrt{5})^2$ d) $(8 - \sqrt{8})^2$ e) $(\sqrt{3} + \sqrt{5})^2$ f) $(\sqrt{11} - \sqrt{7})^2$ g) $(4\sqrt{2} + 3\sqrt{5})^2$ h) $(7\sqrt{3} - 2\sqrt{7})^2$



Riješi kvadratne jednađbe:

a) $a^2 = 9$

b) $b^2 = 36$

c) $c^2 = 121$

d) $d^2 = 196$

e) $e^2 = 484$

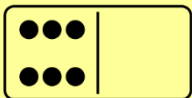
f) $f^2 = \frac{1}{4}$

g) $g^2 = \frac{16}{49}$

h) $h^2 = \frac{225}{169}$

i) $i^2 = \frac{25}{256}$

j) $j^2 = \frac{81}{400}$



Riješi kvadratne jednađbe:

a) $4a^2 = 64$

b) $50b^2 = 98$

c) $3c^2 = -27$

d) $3d^2 - 300 = 0$

e) $\frac{1}{3}e^2 = 12$

f) $-\frac{3}{5}f^2 = -135$

g) $(4g - 1)^2 = 0$

h) $(h - 12)^2 = 49$

i) $(2i - 3)^2 = 36$

j) $(4j + 5)^2 = 81$

k) $(5k - 7)^2 - 100 = 0$

l) $(l - 6)^2 + 14 = 303$