



University of Ljubljana
Faculty of Civil and Geodetic Engineering

ANALYSIS OF MOODLE QUIZZES COMPARED TO GRADES

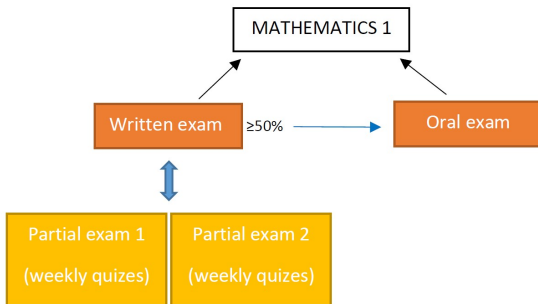
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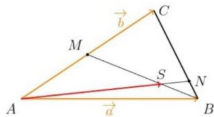
Undergraduate studies, required course



V trikotniku ABC označimo $\vec{a} = \vec{AB}$ in $\vec{b} = \vec{AC}$. Točka M razpolavlja stranico AC , točka N pa deli stranico BC v razmerju 1 : 4. Naj bo S presečišče daljic BM in AN . Izrazi \vec{AS} z vektorjema \vec{a} in \vec{b} .

- $\vec{AS} = \frac{3}{4}\vec{a} + \frac{1}{8}\vec{b}$.
- $\vec{AS} = \frac{3}{2}\vec{a} + \frac{1}{8}\vec{b}$.
- $\vec{AS} = \frac{3}{4}\vec{a} + \frac{1}{3}\vec{b}$.
- $\vec{AS} = \frac{3}{4}\vec{a} + \frac{1}{6}\vec{b}$.

✘



Vektor \vec{AS} izrazimo na dva načina $\vec{AS} = \lambda \vec{AN} = \frac{4}{5}\lambda \vec{a} + \frac{1}{5}\lambda \vec{b}$ in $\vec{AS} = \vec{AM} + \mu \vec{MB} = \mu \vec{a} + (\frac{1}{2} - \frac{1}{2}\mu) \vec{b}$. Uporabimo še linearno neodvisnost vektorjev \vec{a} in \vec{b} , da dobimo sistem dveh enačb za dve neznaniki in iz njega izračunamo λ ali μ . Izrazimo \vec{AS} .

Poskusi si še enkrat vprašanje, kol je ta

Dani sta ravnina $2x + y - 2z = 12$ in premica $\frac{x-15}{2} = \frac{y}{3} = \frac{z-6}{2}$.

Njuno presečišče je točka A (\times , \times , \times).

Najprej zapišemo parametrično obliko enačbe dane premice: $x = x_0 + at$, $y = y_0 + bt$, $z = z_0 + ct$.

Nato vstavimo izraze za x , y , z (npr. $x = x_0 + at$) v enačbo dane ravnine. Rešitev dobljene enačbe $t = t_0$ vstavimo v parametrično obliko enačbe premice in dobimo koordinate presečišča premice in ravnine.

Poskusi s še enim vprašanjem, kot je ta

Naj bosta $A = (0, 3)$ in $B = (1, 4)$.

$$A \cup B = [\text{↕} \checkmark 1 \text{↕} \times 0 \text{↕} \times] \text{↕} \checkmark$$

$$A \cap B = [\text{↕} \times 1 \text{↕} \checkmark 3 \text{↕} \checkmark] \text{↕} \times$$

$$A \setminus B = [\text{↕} \times 1 \text{↕} \times 3 \text{↕} \times] \text{↕} \times$$

$$B \setminus A = [\text{↕} \checkmark 1 \text{↕} \times 3 \text{↕} \times] \text{↕} \checkmark$$

Vaš odgovor je delno pravilen.

Pravilno ste izbrali 6.

Uporabimo definicije operacij med množicami:

$$A \cup B = \{x \mid x \in A \text{ ali } x \in B\}$$

$$A \cap B = \{x \mid x \in A \text{ in } x \in B\}$$

$$A \setminus B = \{x \mid x \in A \text{ in } x \notin B\}$$

$$B \setminus A = \{x \mid x \in B \text{ in } x \notin A\}$$

Poskusi s še enim vprašanjem, kot je ta

Student ID	1.partial exam	1. QUIZ (17. okt)					2. QUIZ (24. okt)					3. QUIZ (31. okt)					4. QUIZ (7. nov)					5. QUIZ (14. asov)					6. QUIZ (21. asov)					
		1.as	2.as	3.as	4.as	5.as	1.as	2.as	3.as	4.as	5.as	1.as	2.as	3.as	4.as	5.as	1.as	2.as	3.as	4.as	5.as	1.as	2.as	3.as	4.as	5.as	1.as	2.as	3.as	4.as	5.as	
26211058	90	1	1	1	1	1	1	3	1	1	2	2	3	2	3	2	1	1	4	4	1	1	1	2	1	1	3	1	1	4	2	
26211061	90	3	1	4	1	1	4	6	1	2	1	3	2	2	1	2	1	1	4	1	3	1	1	4	1	1	3	3	1	2		
26211021	85	1	1	1	3	1	1	1	1	1	1	2	4	1	1	2	1	1	9	1	1	1	1	1	2	1						
26211149	85	1	2	1	1	1	3	1	1	4	1	8	2	1	1	2	1	2	2	1	1	1	1	1	2	1	2	1	1	2		
26211139	80	1	1	1	1	1	8	2	1	1	1	1	2	1	2	1	1	1	1	1	1	2	1	1	1	6	1	1	1	2	1	
26211071	80	1	2	1	1	1	1	2	1	1	1	2	2	1	4	1	2	1	1	4	1	1	1	1	1	1	1	1	2	1	1	
26211125	75	2	1	1	1	1	2	7	1	2	1	1	2	1	1	3	1	1	1	1	1	1	2	2	1	1	5	2	2	1	1	
26211197	70	1	1	1	1	1	3	1	1	1	1	3	2	5	1	2	1	1	3	1	1	2	1	6	2	2	2	6	3	2	1	
26211066	70	1	1	1	3	2	6	1	1	3	1	2	1	9	3	3	1	1	8	1	2	1	1	1	5	1	1	1	2	1	28	
26211237	70	1	2	2	1	2	7	1	1	1	1	4	1	2	3	3	2	3	3	1	1	6	1	2	1	1	1	1	1	1	1	
26211087	45	3	2	1	2	4	2	1	1	3	5	1	9	1	5	4	7	4	6	1	10	13	13	20	4	14	10	5	7	3	15	
26211100	45	1	2	1	4	1	1	1	2	2	3	3	9	6	8	2	3	1	9	3	5										14	
26211056	45	1	3	1	1	1	2	1	1	3	2	6	2	1	3	2	1	3	9	9	7	14	2	1	3	2	2	1	3	3	42	
26211059	45	4	2	1	3	1	2	1	1	1	6	1	1	7	1	3	2	1	6	3	5	3	1	2	5	7	7	10	2	1	14	
26211142	45	5	5	1	14	14	14	1	1	1	3	6	3	1	2	2	1	1	8	1	2	1	3	3	6	1	1	2	1	1	1	
26211242	40	1	2	1	6	7	6	1	3	1	1	5	2	1	7	4	6	1	14	1	2	1	1	2	2	1	2	2	1	4	2	
26204133	40	6	2	5	4	6	9	1	1	17	2	3	2	4	10	3	3	6	6	10	9	8	13	1	3	10	6	10	3	2	15	
26211244	40	1	3	2	3	1	2	1	1	1	1	9	2	2	6	4	1	2	1	1	6	1	1	4	3	2	4	5	2	2	1	
26204148	40	2	2	1	1	3	4	4	3	10	6	3	14	4	3	2	3	2	2	1	3	2	2	2	3	2	2	13	5	1	1	
26211156	30	1	1	4	1	1	6	2	2	1	1	4	2	1	1	2	1	2	4	1	1	2	2	4	1	2	2	1	2	4	8	
26211157	10	1	1	1	3	5	1	1	1	1	1	14	14	9	5	2	3	1	2	2	3											
26204149	10	3	4	3	2	14	1	14	1	5	6	2	6	1	13	1	2	5	4	1	3	2	5	14	3	4	7	7	14	1	7	
26211047	5	1	1	2	1	3	4	1	1	2	6	8	6	2	10	4																50
26211029	5	1	1	1	2	1	1	2	1	2	1	18	1	2	1	5																2
26211211	5	2	2	1	2	7	13	2	2	2	2	1	1	1	6	1	1	6	6	1	1	1	2	2	9	2						
26211148	5	3	5	1	5	5						3	8	5	5	2	2	1	2	1	7	2	5	1	2	4						
26211176	0	5	10	3	1	14	6	8	1	4	17	5	7	3	7	7	5	7	17	18	2	17	18	3	2	6	4	11	9	4	5	
26211154	0	4	2	3	6	4	14	1	2	4	1	5	1	7	8	4	10	1	5	8	10	4	7	1	4	14	7	7	6	5	14	
26211171	0	1	9	2	8	4	5	1	1	1	1	7	10	12	12	7	2	9	5	1	1	11	18	6	2	2	1	5	1	10	1	
26211247	0	4	1	2	2	6	7	6	1	4	1	6	4	14	8	10	6	3	5	6	13	13	17	4	5	1	4	4	1	5	2	

Student ID	1.partial exam	1. QUIZ (17. okt)					2. QUIZ (24. okt)					3. QUIZ (31. okt)					4. QUIZ (7. nov)					5. QUIZ (14. asov)					6. QUIZ (21. asov)				
		1.as	2.as	3.as	4.as	5.as	1.as	2.as	3.as	4.as	5.as	1.as	2.as	3.as	4.as	5.as	1.as	2.as	3.as	4.as	5.as	1.as	2.as	3.as	4.as	5.as	1.as	2.as	3.as	4.as	5.as
26211058	90	1	1	1	1	1	1	3	1	1	2	2	3	2	3	2	1	1	4	4	1	1	1	2	1	1	3	1	1	4	2
26211061	90	3	1	4	1	1	4	6	1	2	1	3	2	2	1	2	1	1	4	1	3	1	1	4	1	1	3	3	1	2	
26211021	85	1	1	1	3	1	1	1	1	1	1	2	4	1	1	2	1	1	9	1	1	1	1	1	2	1					
26211149	85	1	2	1	1	1	1	3	1	1	2	2	1	1	1	1	1	2	2	1	1	1	1	2	1	2	1	1	2		
26211139	80	1	1	1	1	1	8	2	1																						
26211071	80	1	2	1	1	1	1	2	1																						
26211125	75	2	1	1	1	1	2	7	1	2																					
26211197	70	1	1	1	1	1	3	1	1																						
26211066	70	1	1	1	3	2	6	1	1																						
26211237	70	1	2	2	1	2	7	1	1																						
26211087	45	3	2	1	2	4	2	1	1																						
26211100	45	1	2	1	4	1	1	1	1	2																					
26211056	45	1	3	1	1	1	2	1	1																						
26211059	45	4	2	2	1	3	1	2	1																						
26211142	45	5	5	1	14	14	14	1	1																						
26211242	40	1	2	1	6	7	6	1	3																						
26204133	40	6	2	5	4	6	9	1	1																						
26211244	40	1	3	2	3	1	2	1	1																						
26204148	40	2	2	1	1	3	4	4	3																						
26211156	30	1	1	4	1	1	6	2	2																						
26211157	10	1	1	1	3	5	1	1	1	1																					
26204149	10	3	4	3	2	14	1	14	1																						
26211047	5	1	1	2	1	3	4	1	1																						
26211029	5	1	1	1	2	1	1	2	1	2	1	14	1	2	1	5															
26211211	5	2	2	1	2	7	14	2	2	2	2	1	1	1	6	1	1	6	6	1	1	1	2	2	9	2					
26211148	5	3	5	1	5	5																									
26211176	0	5	10	3	1	14	6	8	1	4	1	5	7	3	7	7	5	7	17	14	2	17	14	3	2	6	4	11	9	4	5
26211154	0	4	2	3	6	4	14	1	2	4	1	5	1	7	8	4	14	1	5	8	14	4	7	1	4	14	7	7	6	5	14
26211171	0	1	9	2	8	4	5	1	1	1	1	7	10	12	12	7	2	9	5	1	1	11	14	6	2	14	1	5	1	10	1
26211247	0	4	1	2	2	6	7	6	1	4	1	6	4	14	8	14	6	3	5	6	14	13	12	4	5	1	4	4	1	5	2

ALL QUIZZES	
AV.	3,747106
MAX	50
AV. 1	1,925424
MAX 1	24
AV. 2	3,891525
MAX 2	42
AV. 3	5,524528
MAX 3	50

Average number of repeats per student/score on first partial exam

