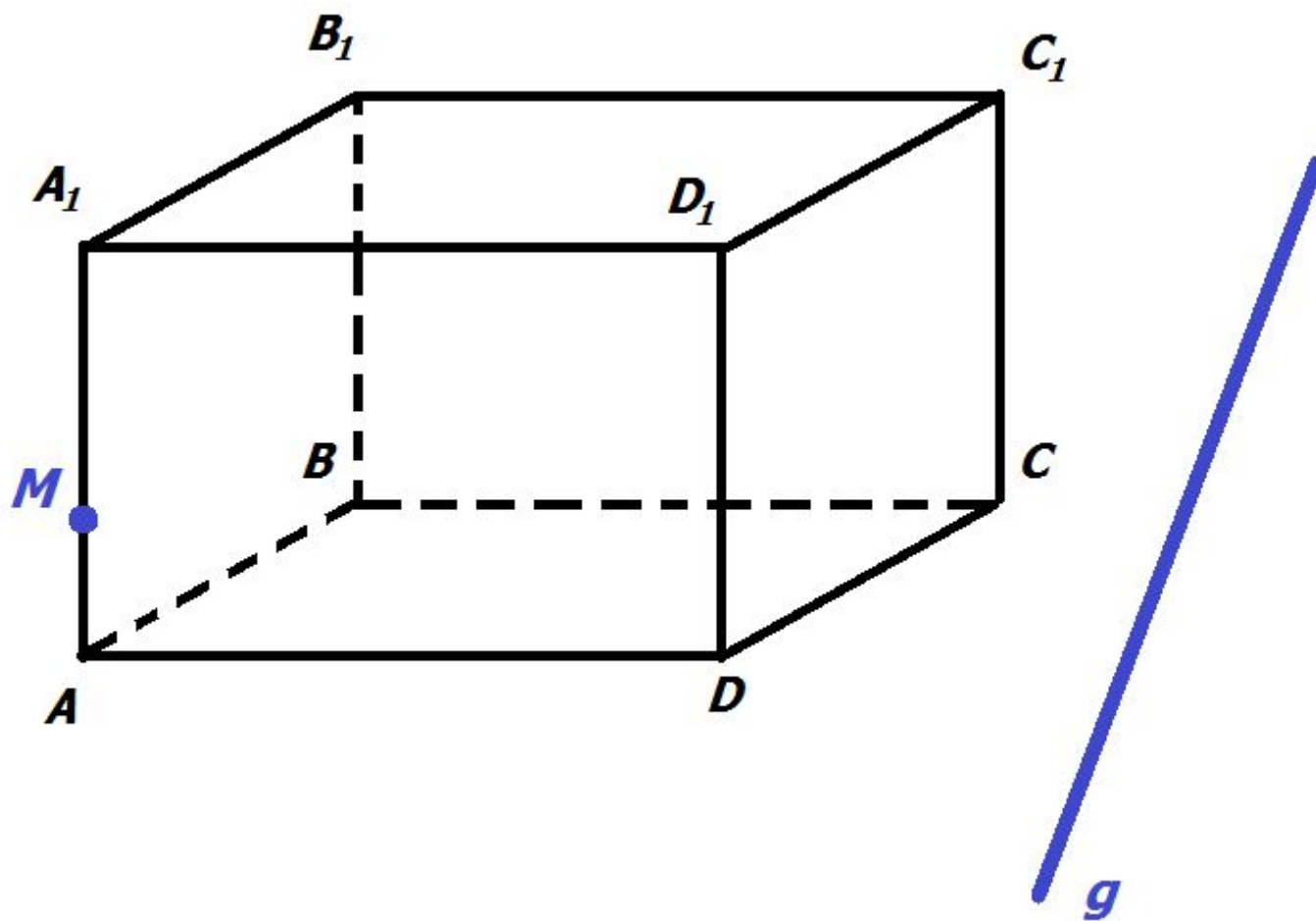


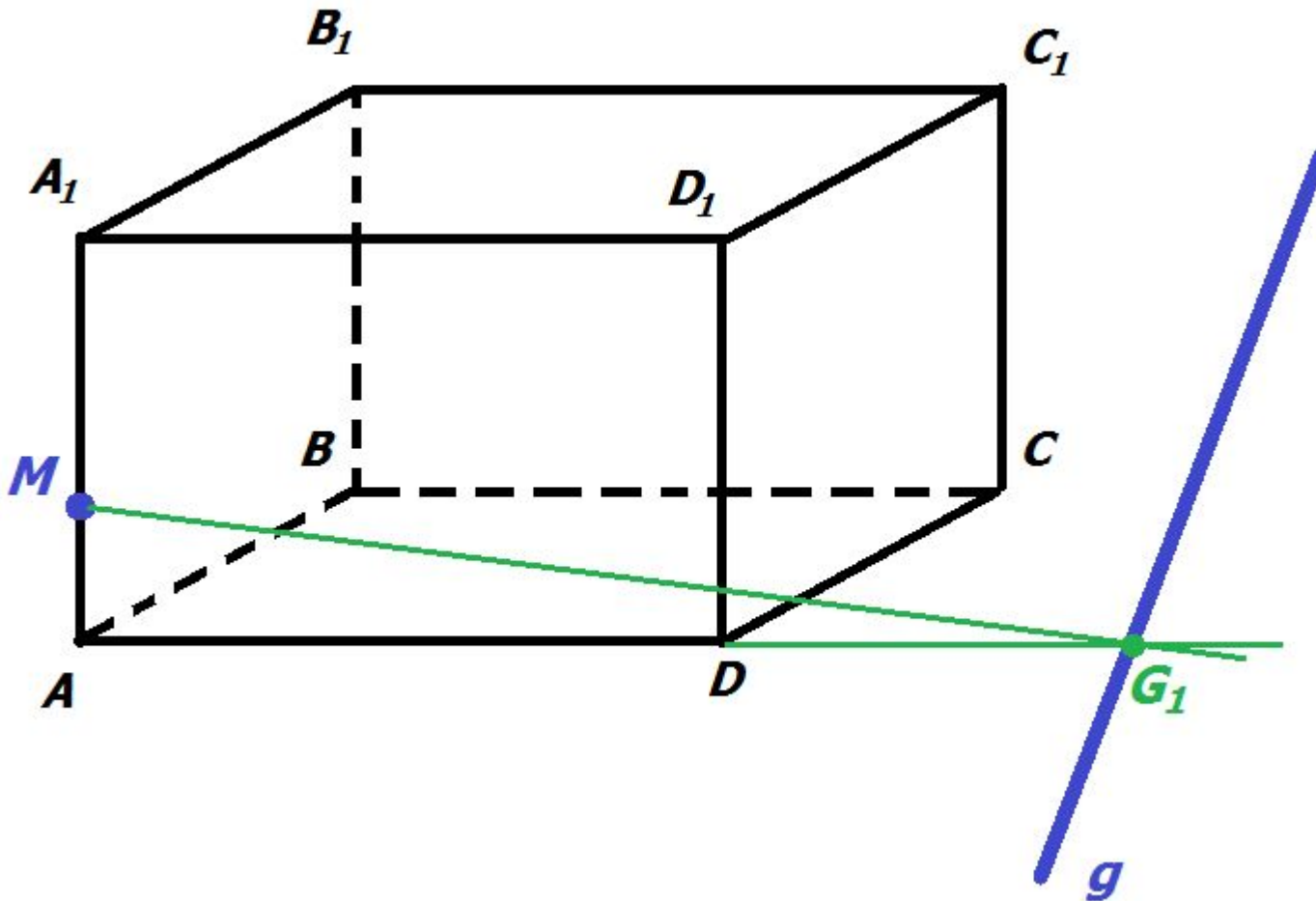
Построение сечений параллелепипеда

Задача 1. Дано: $M \in AA_1$, g

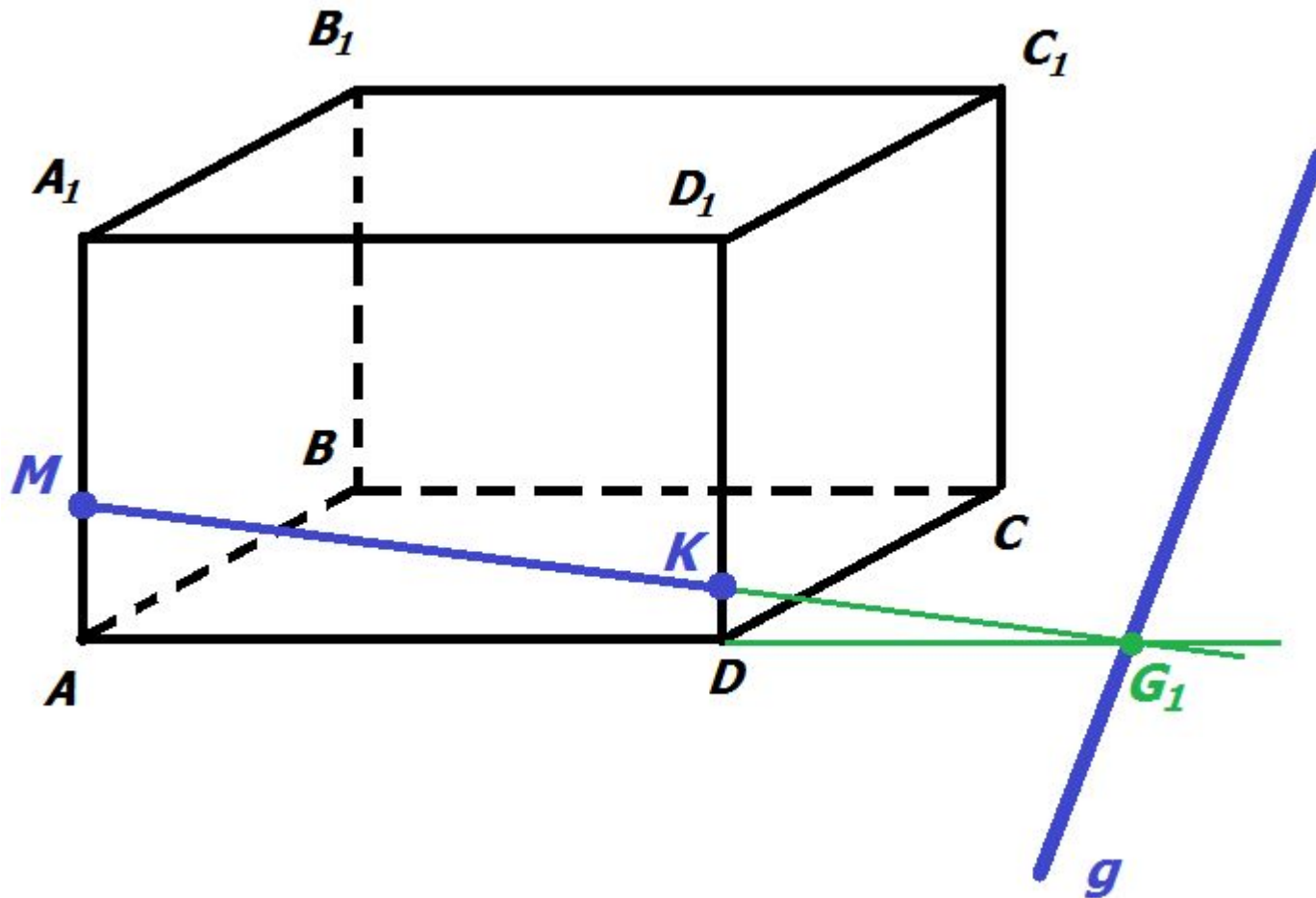


Задача 1. Дано: $M \in AA_1$, g

1. $G_1 = AD \cap g$

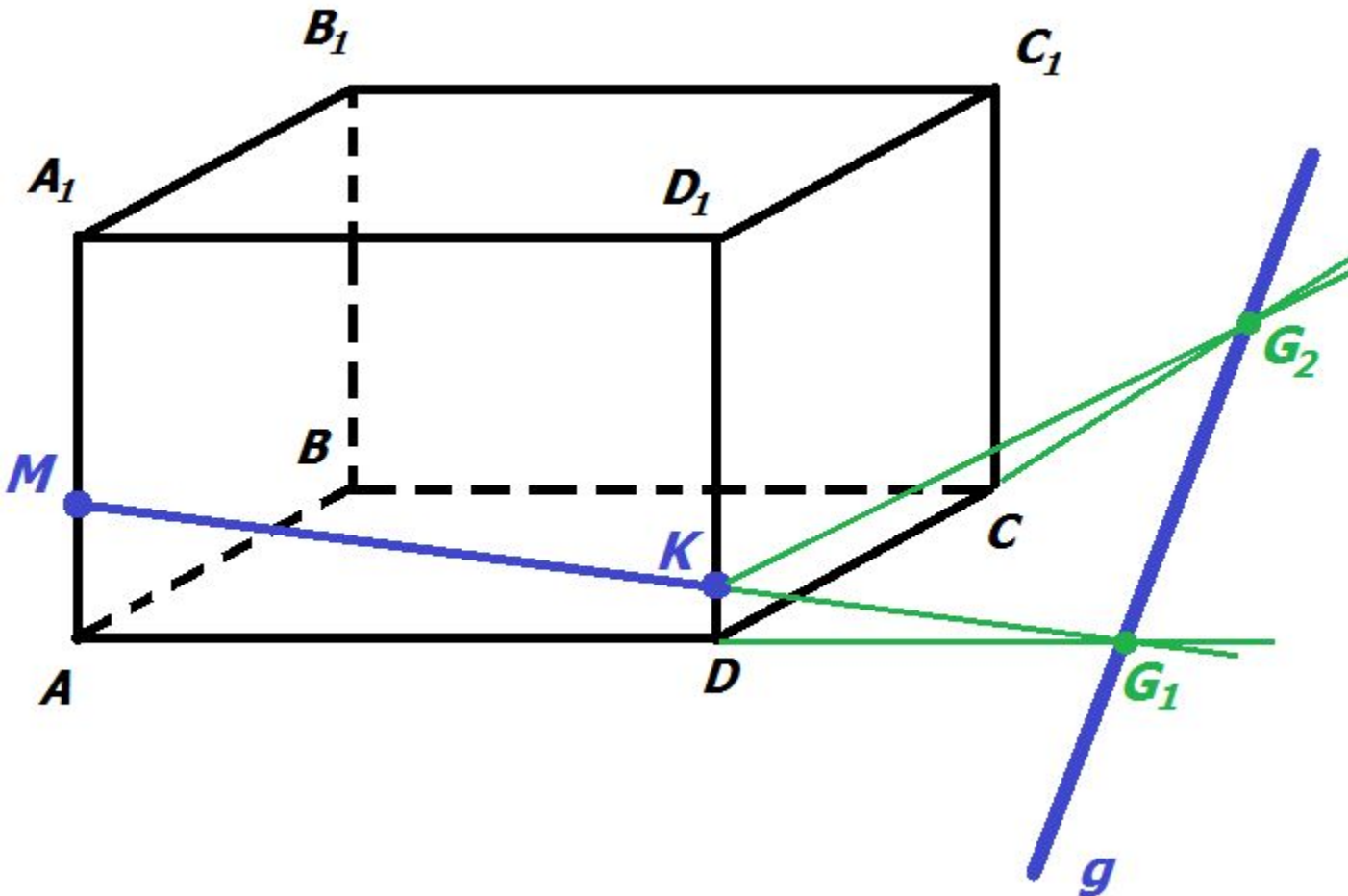


Задача 1. Дано: $M \in AA_1$, g



1. $G_1 = AD_1 \cap g$
2. $K = MG_1 \cap DD_1$

Задача 1. Дано: $M \in AA_1$, g

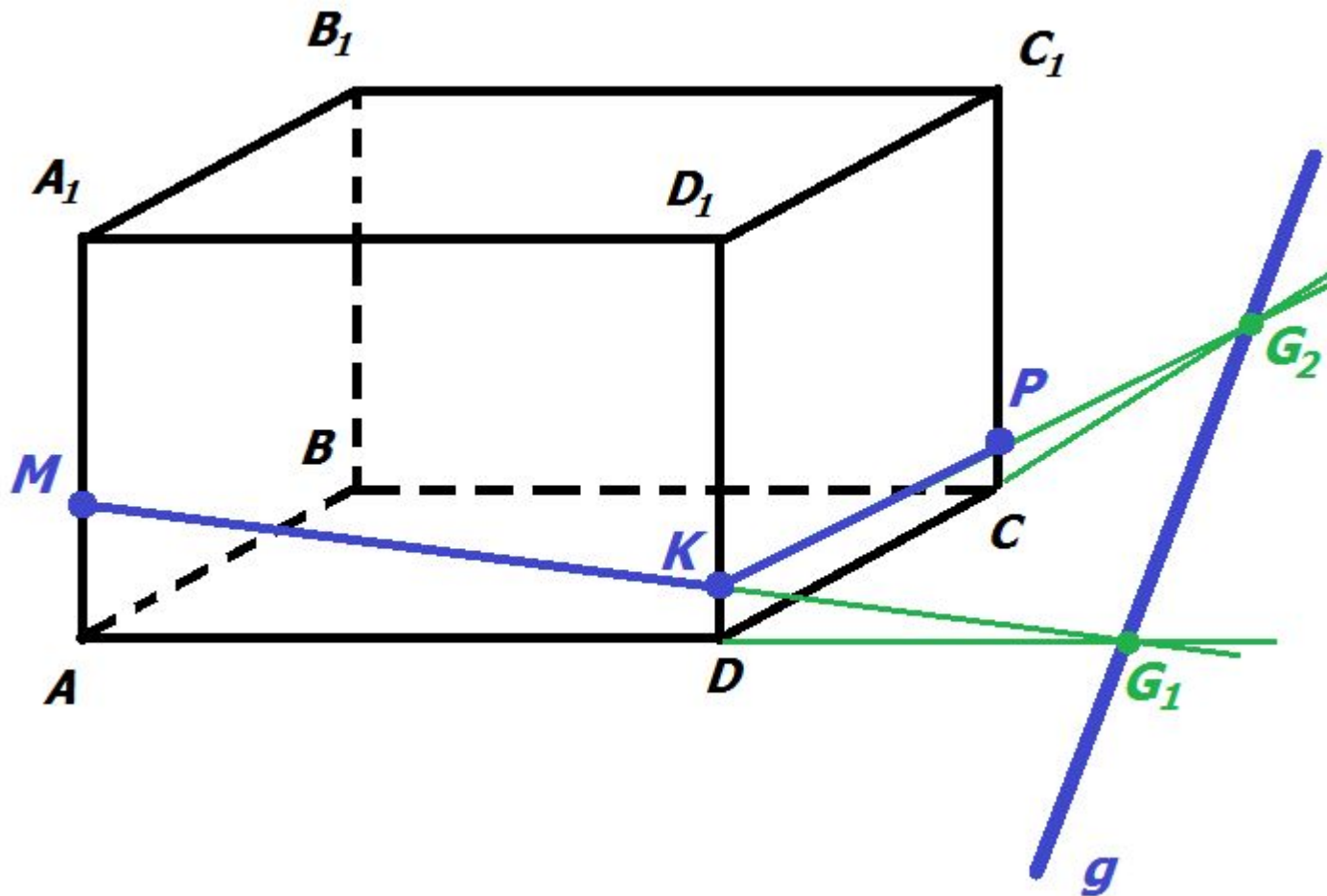


1. $G_1 = AD \cap g$

2. $K = MG_1 \cap DD_1$

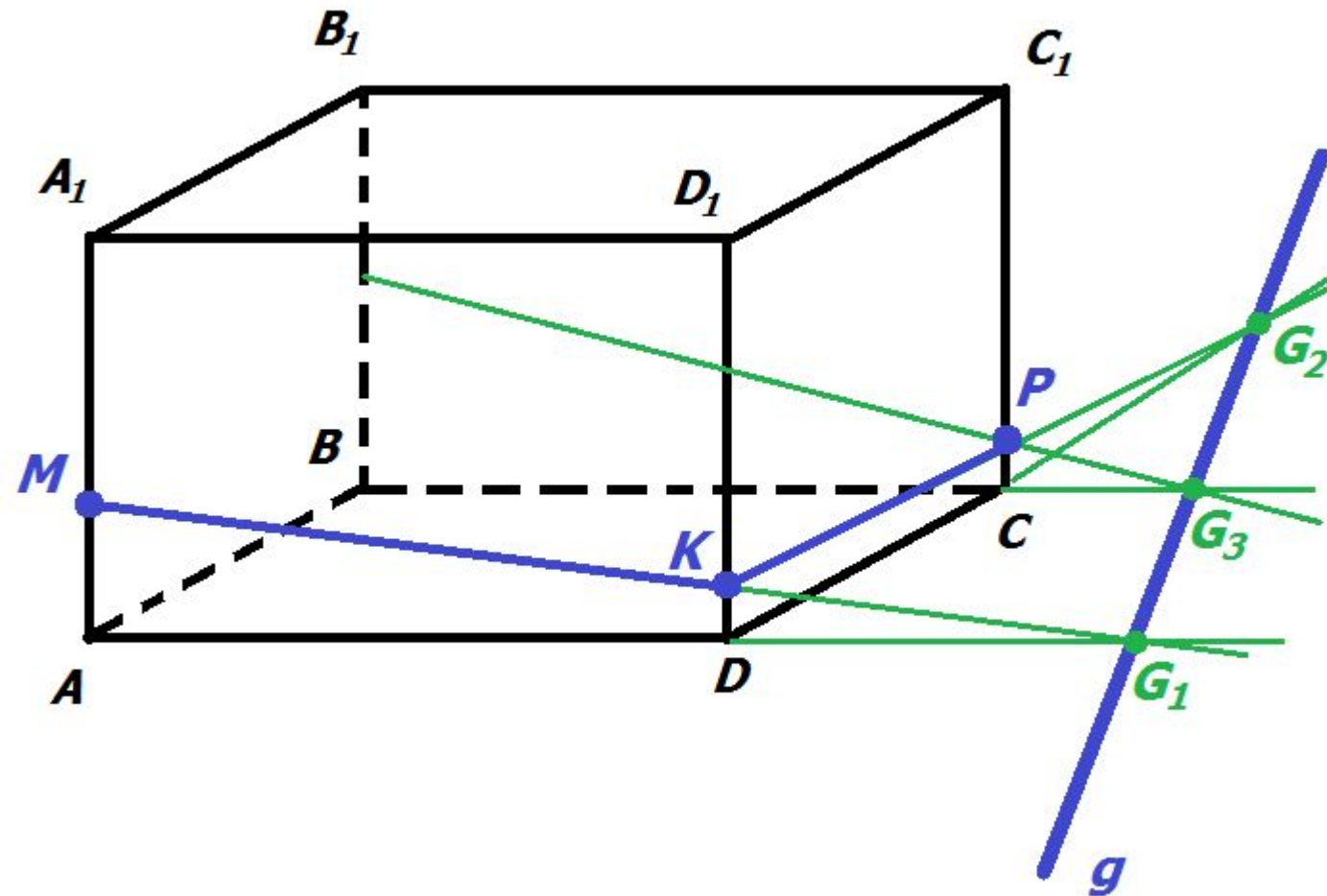
3. $G_2 = CD \cap g$

Задача 1. Дано: $M \in AA_1$, g



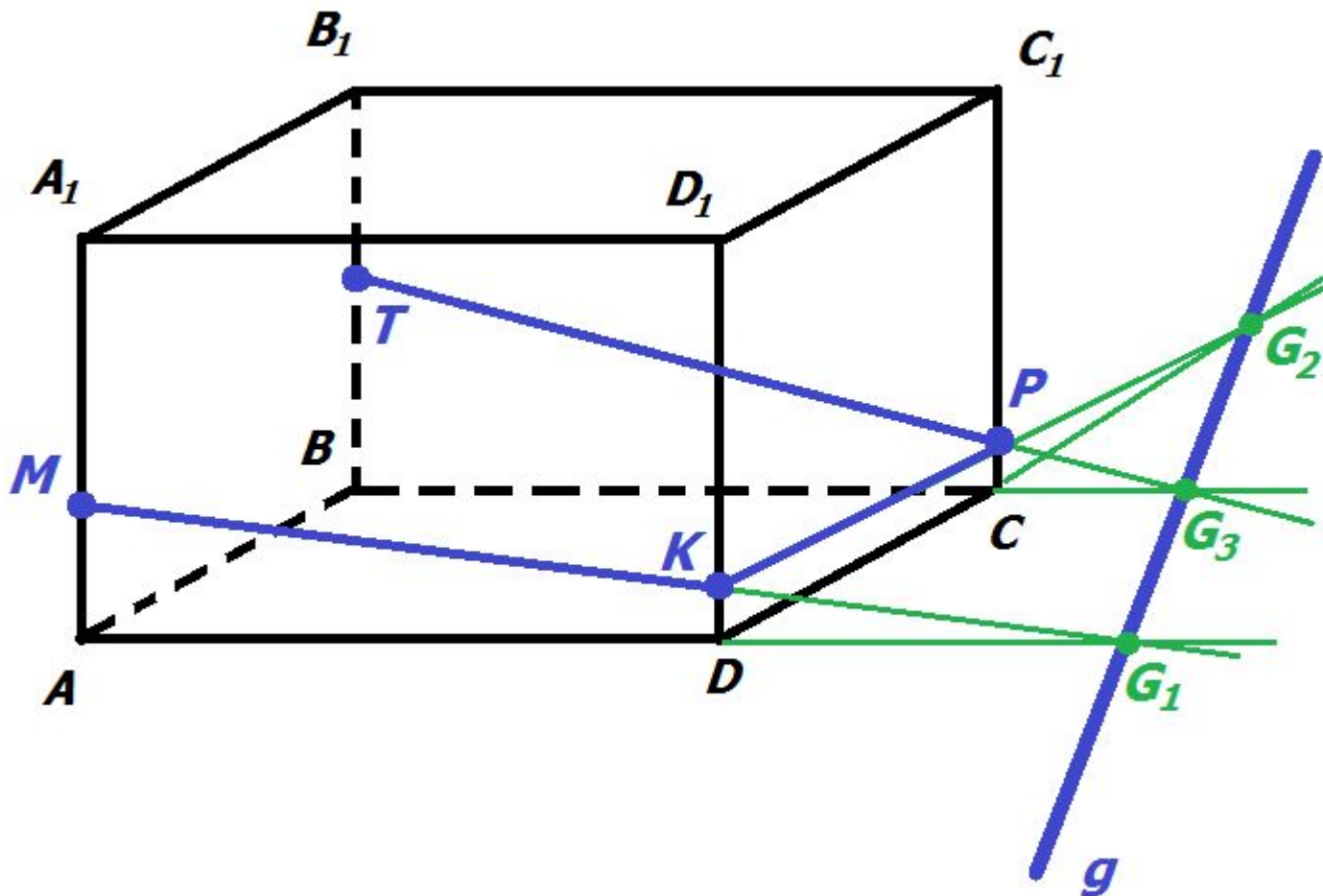
1. $G_1 = AD \cap g$
2. $K = MG_1 \cap DD_1$
3. $G_2 = CD \cap g$
4. $P = KG_2 \cap CC_1$

Задача 1. Дано: $M \in AA_1$, g



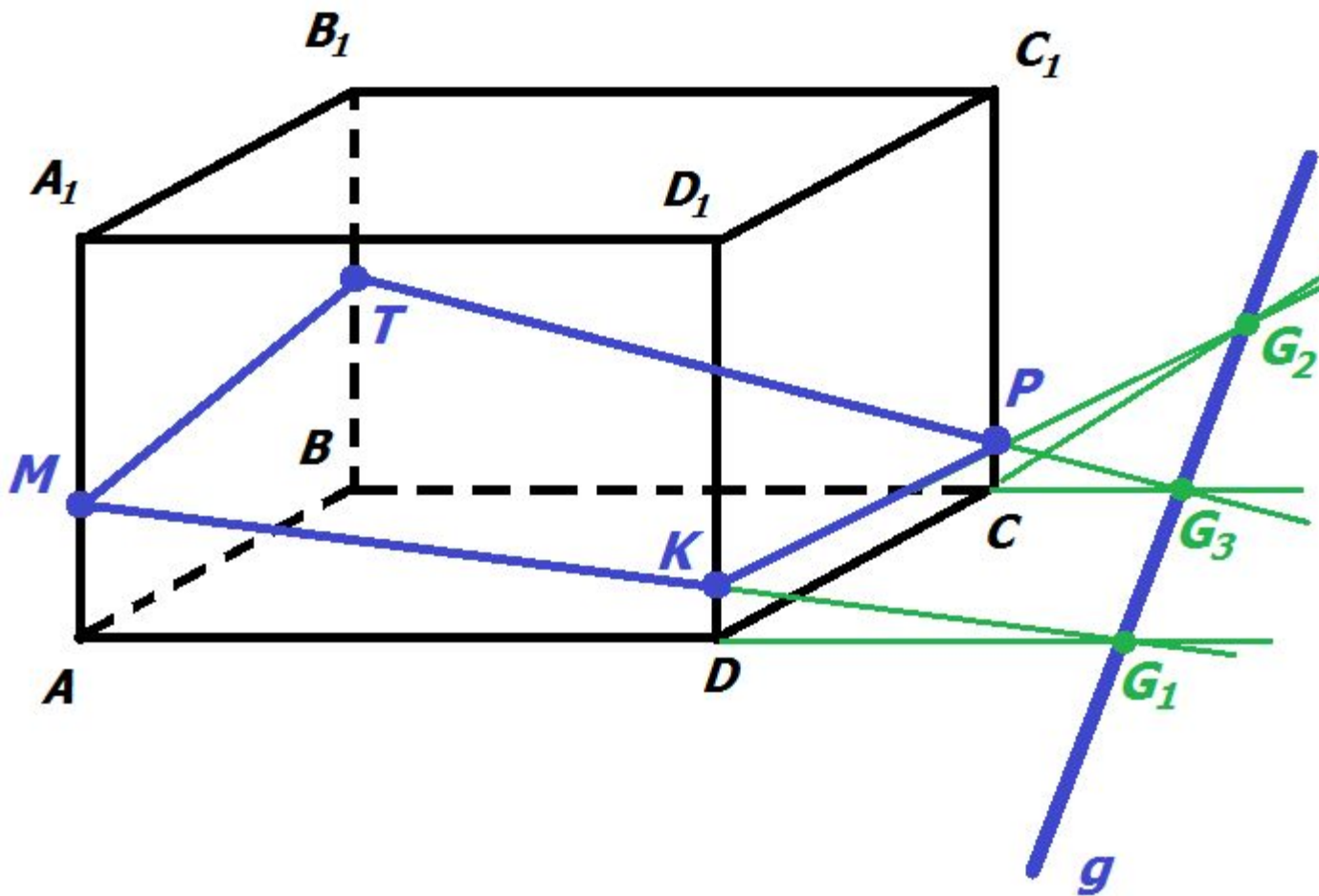
1. $G_1 = AD \cap g$
2. $K = MG_1 \cap DD_1$
3. $G_2 = CD \cap g$
4. $P = KG_2 \cap CC_1$
5. $G_3 = BC \cap g$

Задача 1. Дано: $M \in AA_1$, g



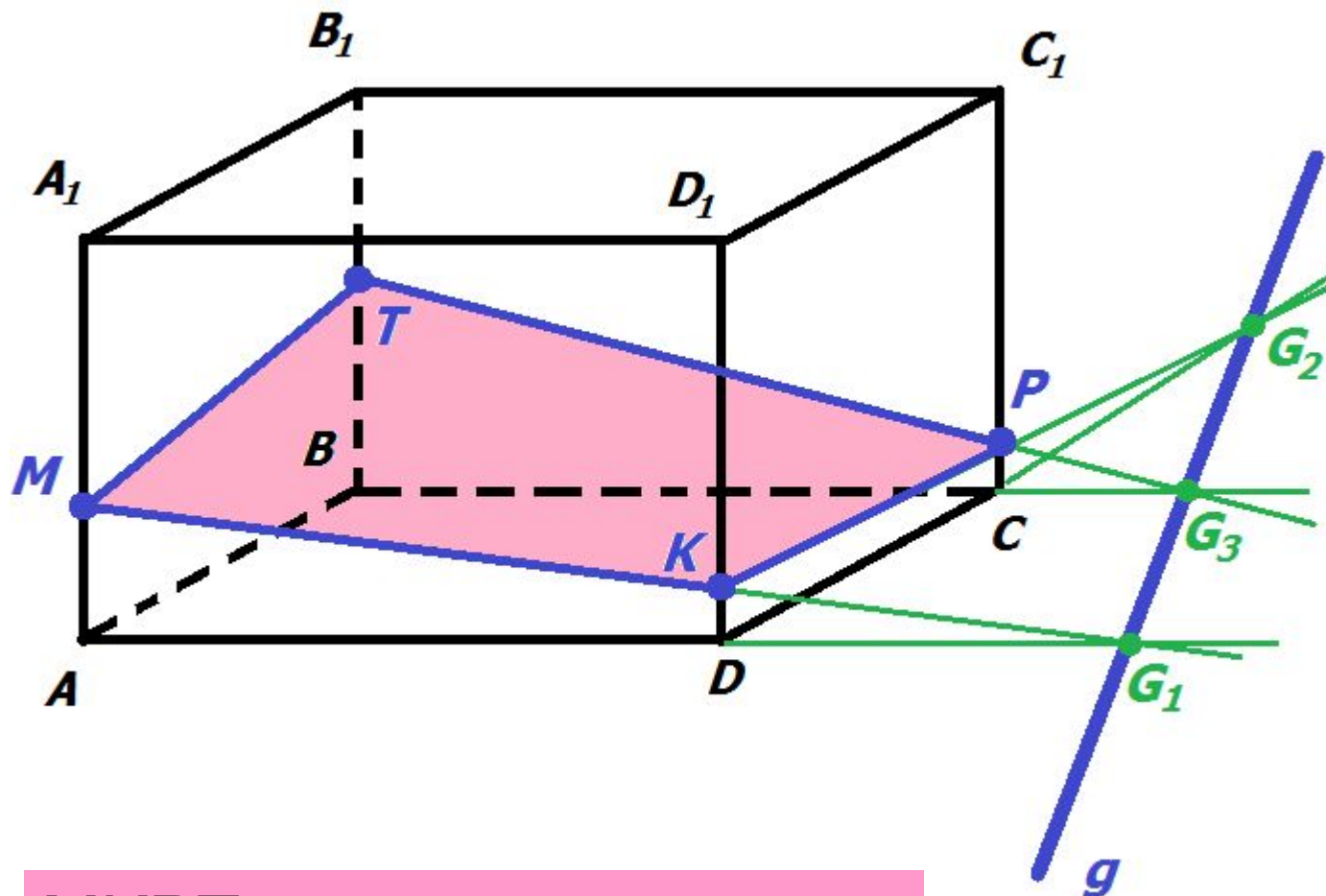
1. $G_1 = AD \cap g$
2. $K = MG_1 \cap DD_1$
3. $G_2 = CD \cap g$
4. $P = KG_2 \cap CC_1$
5. $G_3 = BC \cap g$
6. $T = PG_3 \cap BB_1$

Задача 1. Дано: $M \in AA_1$, g



1. $G_1 = AD \cap g$
2. $K = MG_1 \cap DD_1$
3. $G_2 = CD \cap g$
4. $P = KG_2 \cap CC_1$
5. $G_3 = BC \cap g$
6. $T = PG_3 \cap BB_1$
7. MT

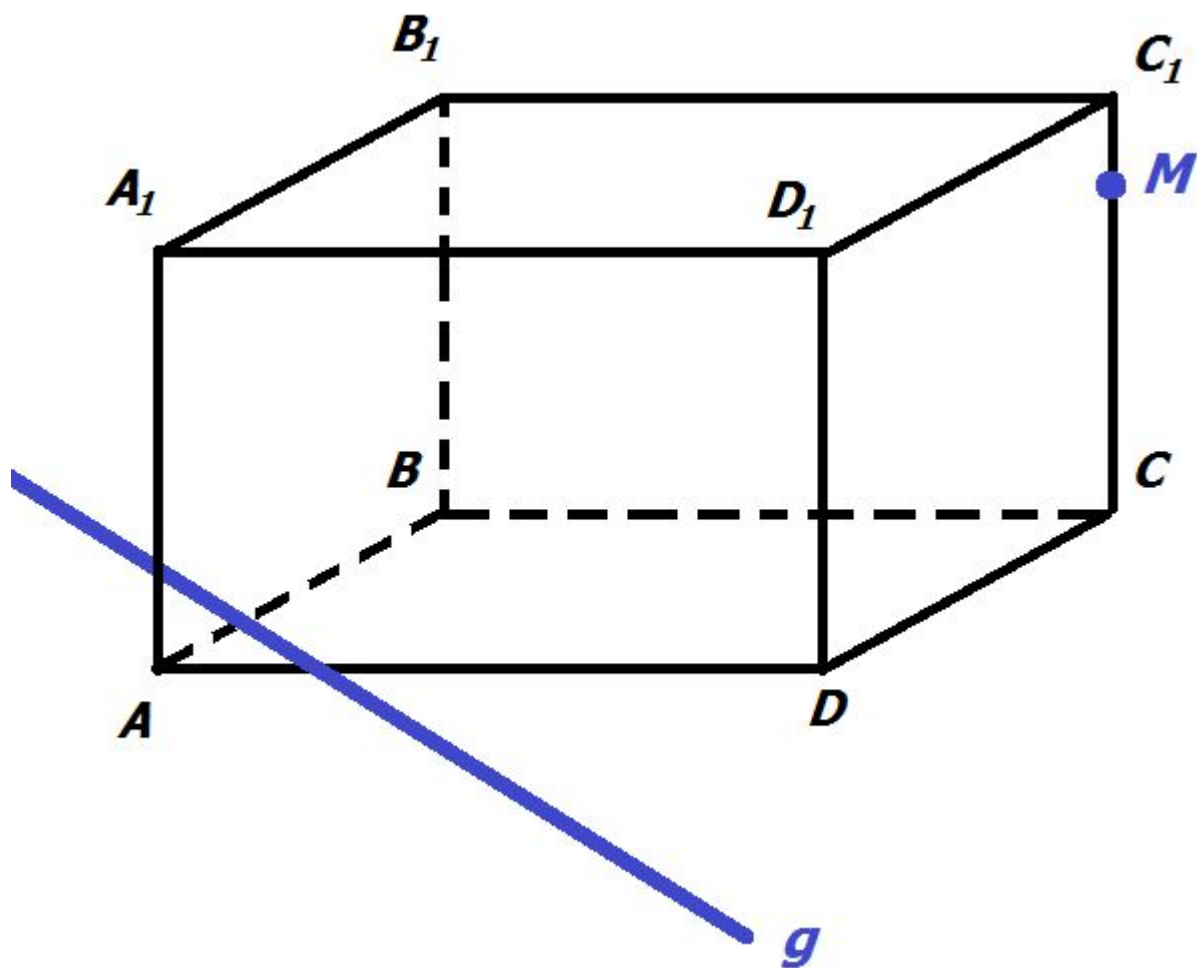
Задача 1. Дано: $M \in AA_1$, g



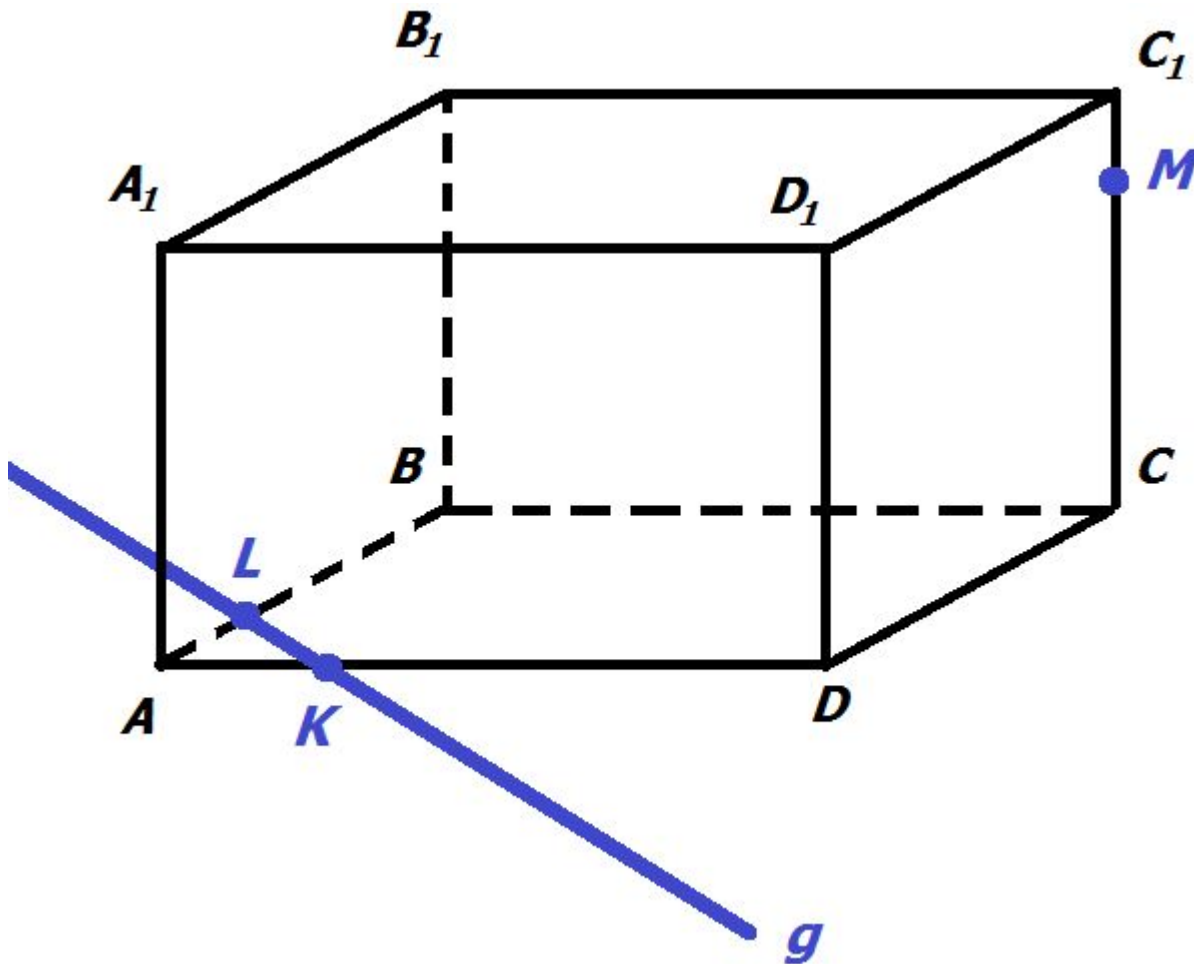
1. $G_1 = AD \cap g$
2. $K = MG_1 \cap DD_1$
3. $G_2 = CD \cap g$
4. $P = KG_2 \cap CC_1$
5. $G_3 = BC \cap g$
6. $T = PG_3 \cap BB_1$
7. MT

МКРТ-искомое сечение

Задача 2. Дано: $M \in CC_1$, g



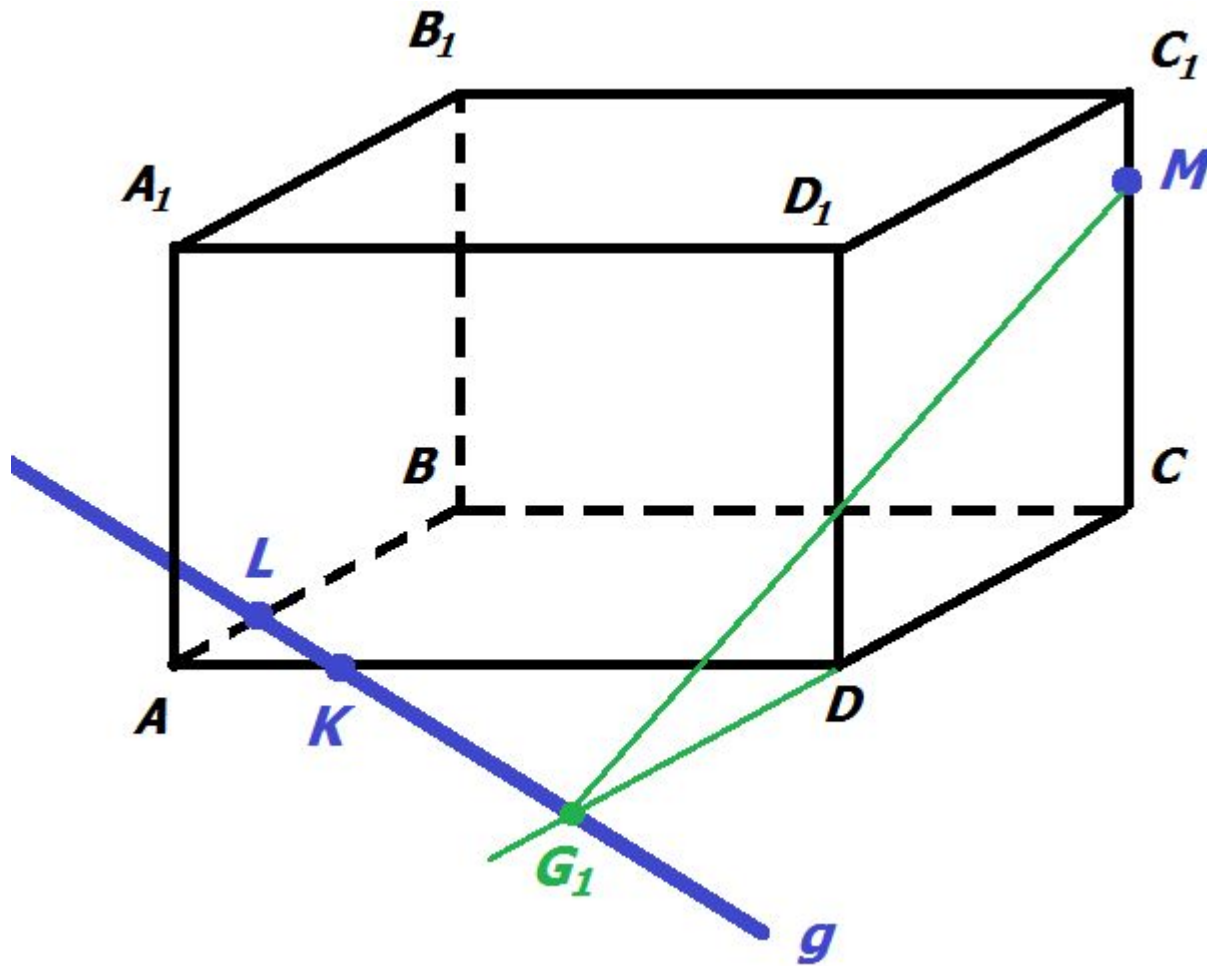
Задача 2. Дано: $M \in CC_1$, g



1. $K = AD \cap g$

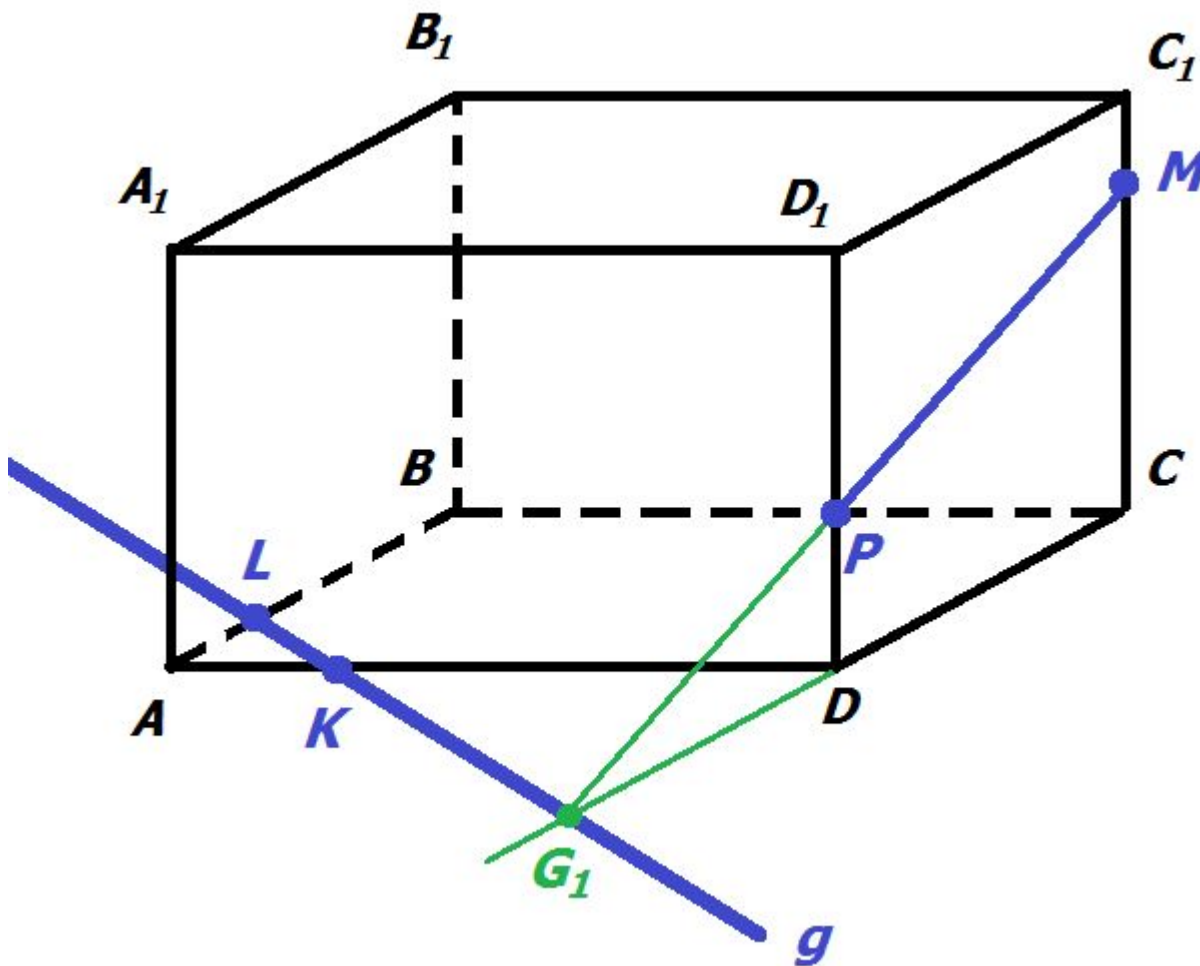
2. $L = AB \cap g$

Задача 2. Дано: $M \in CC_1$, g



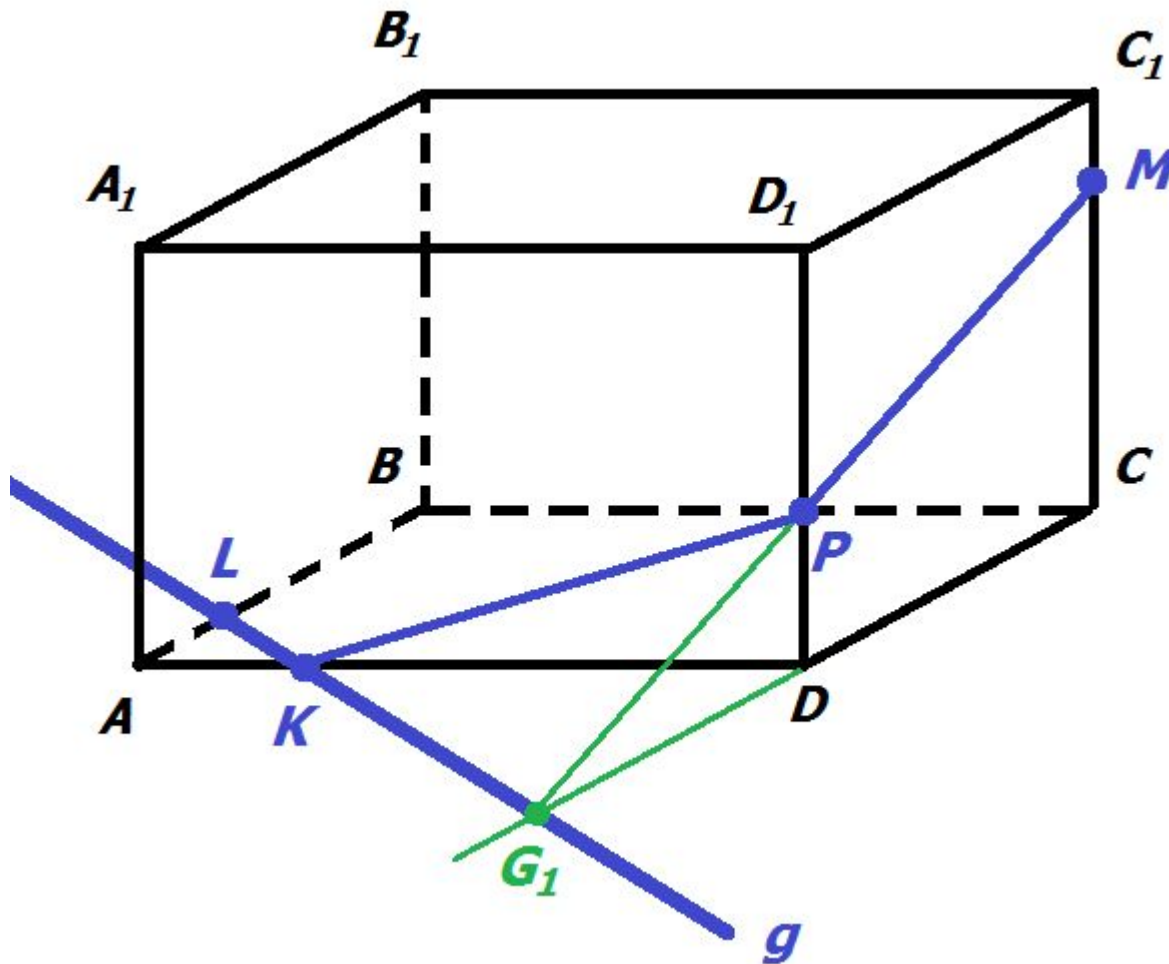
1. $K = AD \cap g$
2. $L = AB \cap g$
3. $G_1 = CD \cap g$

Задача 2. Дано: $M \in CC_1$, g



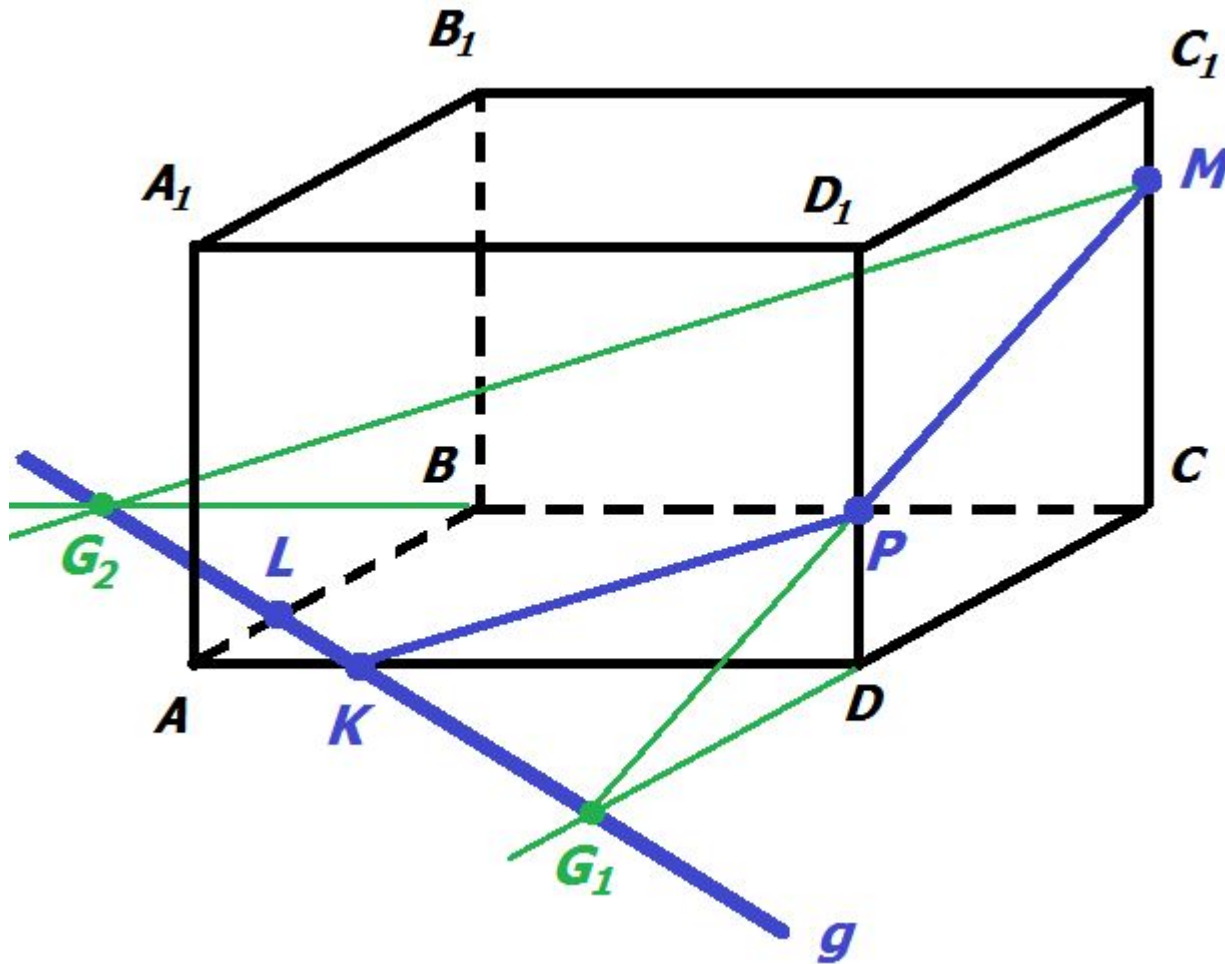
1. $K = AD \cap g$
2. $L = AB \cap g$
3. $G_1 = CD \cap g$
4. $P = MG_1 \cap DD_1$

Задача 2. Дано: $M \in CC_1$, g



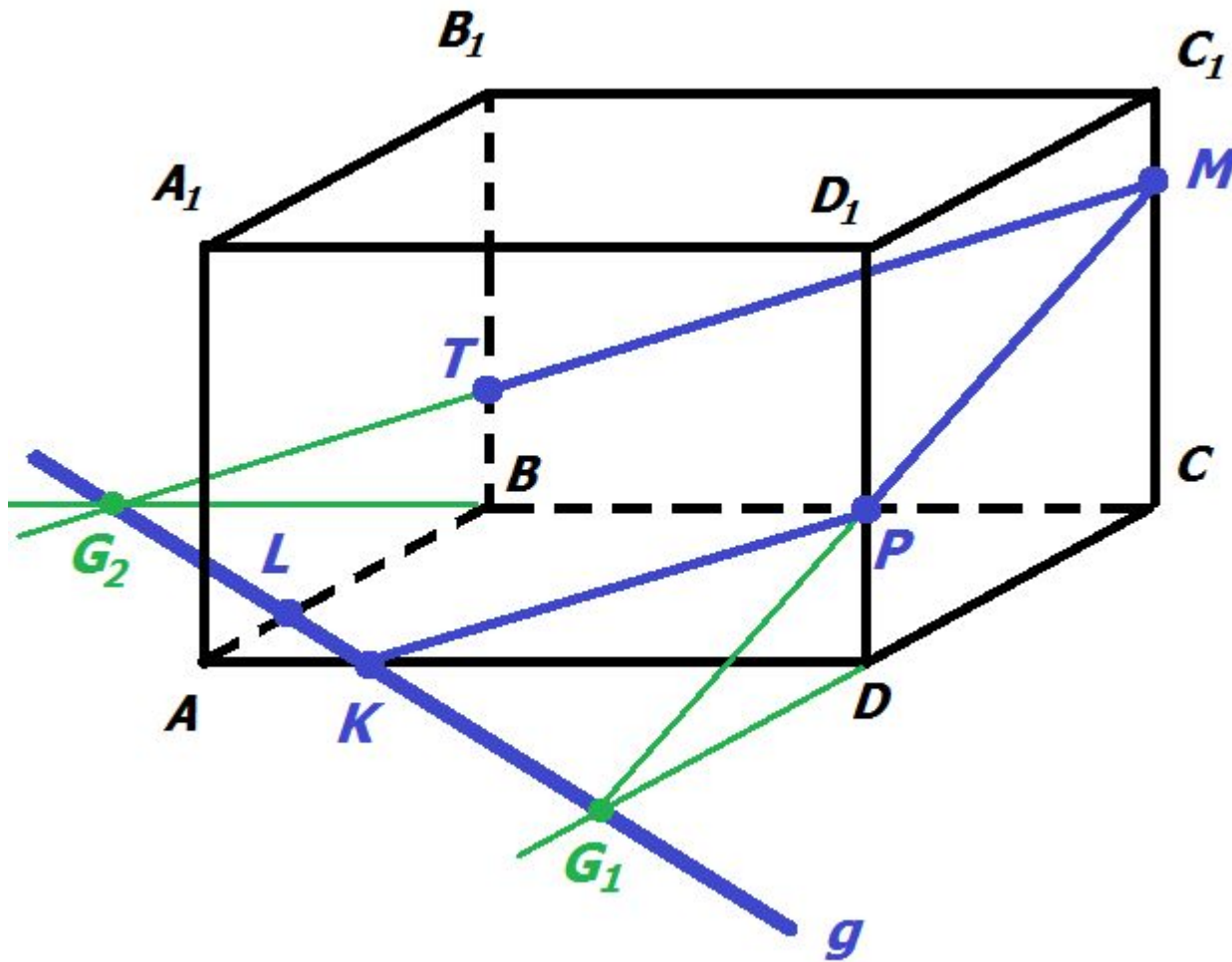
1. $K = AD \cap g$
2. $L = AB \cap g$
3. $G_1 = CD \cap g$
4. $P = MG_1 \cap DD_1$
5. KP

Задача 2. Дано: $M \in CC_1$, g



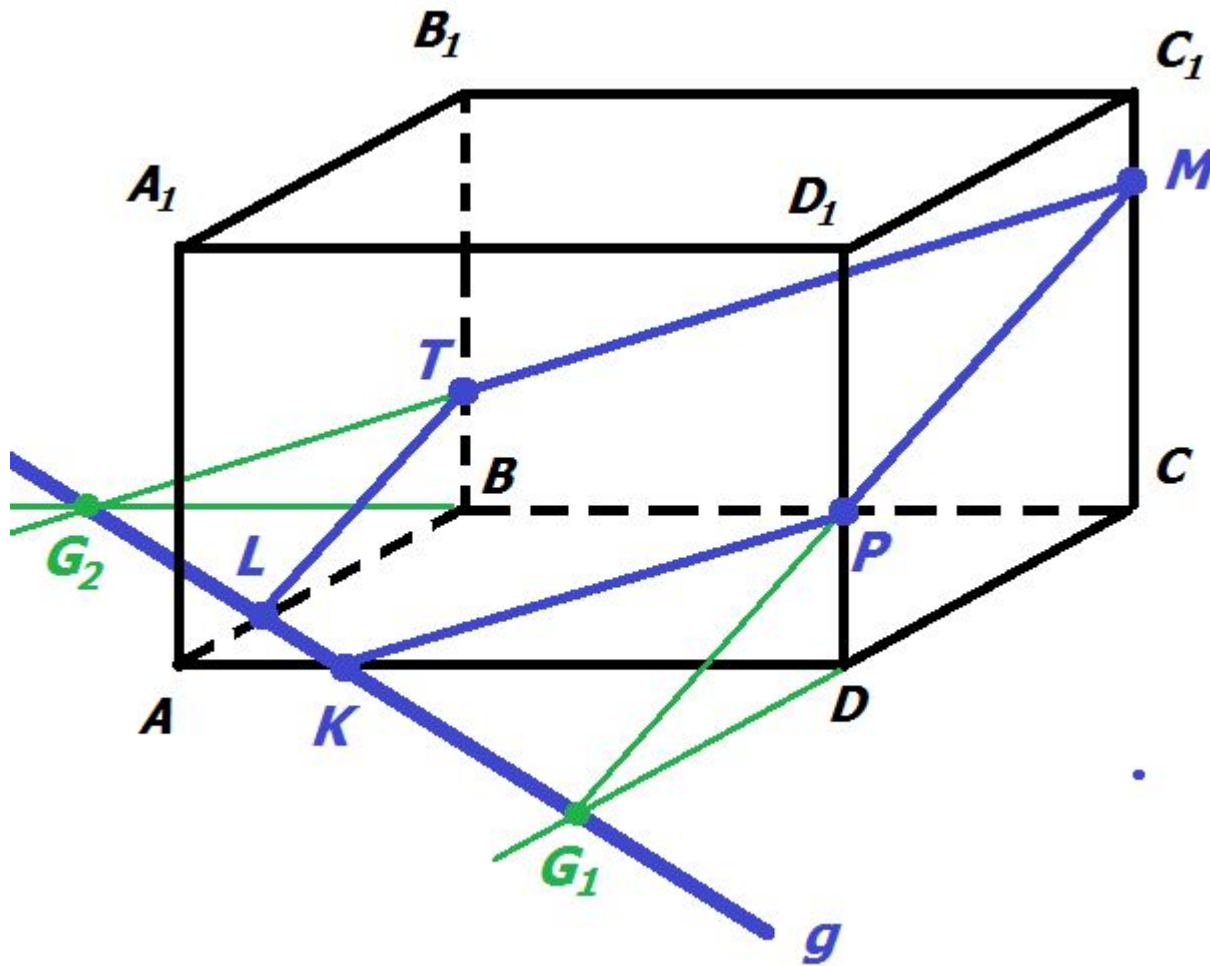
1. $K = AD \cap g$
2. $L = AB \cap g$
3. $G_1 = CD \cap g$
4. $P = MG_1 \cap DD_1$
5. KP
6. $G_2 = BC \cap g$

Задача 2. Дано: $M \in CC_1$, g



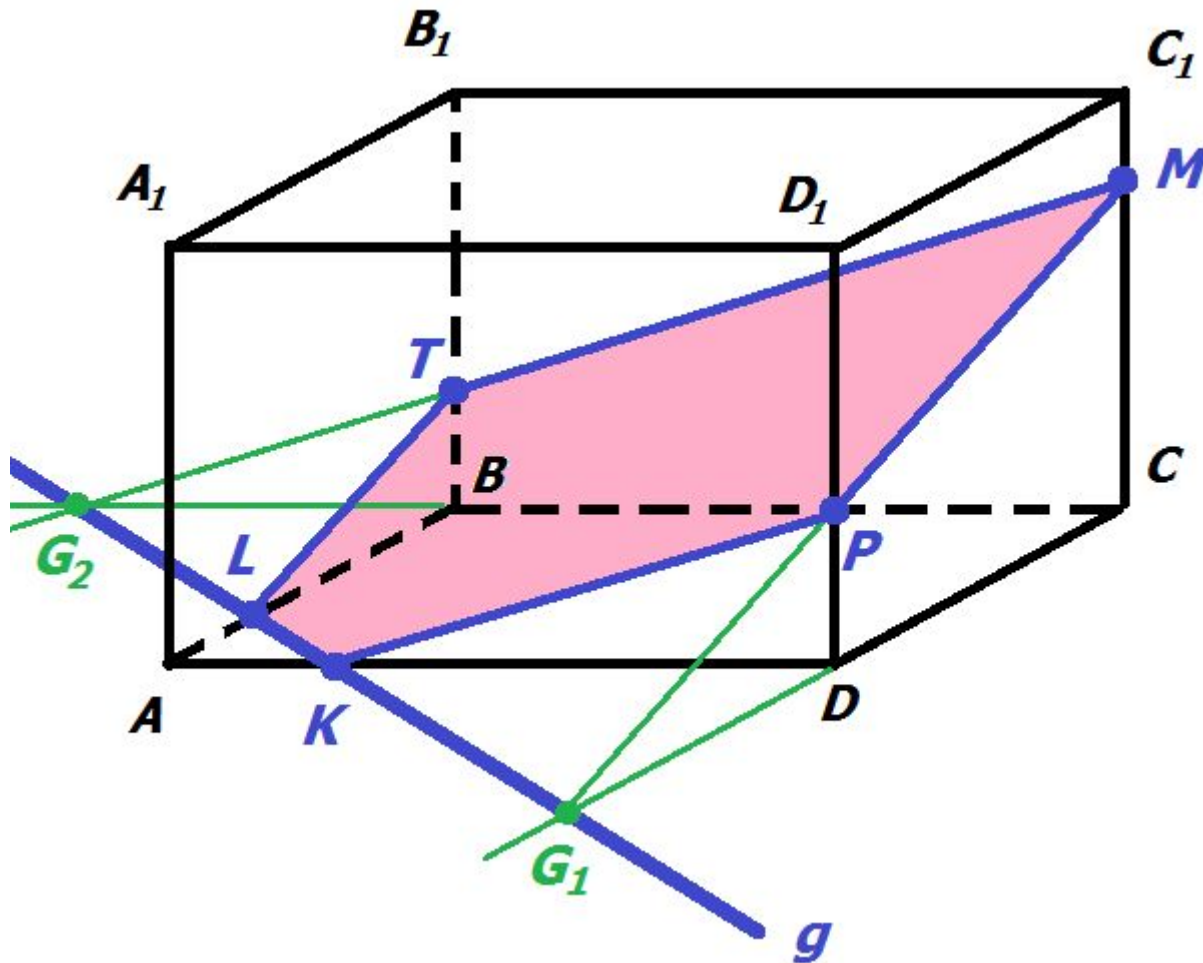
1. $K = AD \cap g$
2. $L = AB \cap g$
3. $G_1 = CD \cap g$
4. $P = MG_1 \cap DD_1$
5. KP
6. $G_2 = BC \cap g$
7. $T = MG_2 \cap BB_1$

Задача 2. Дано: $M \in CC_1$, g



1. $K = AD \cap g$
2. $L = AB \cap g$
3. $G_1 = CD \cap g$
4. $P = MG_1 \cap DD_1$
5. KP
6. $G_2 = BC \cap g$
7. $T = MG_2 \cap BB_1$
8. LT

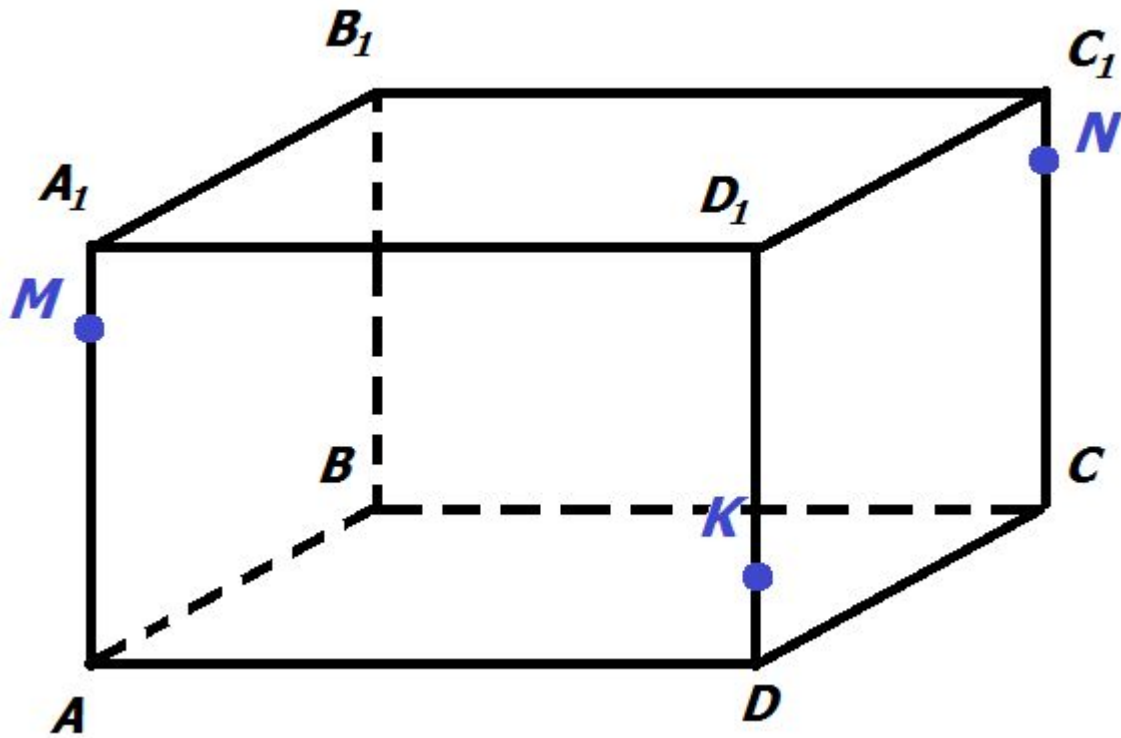
Задача 2. Дано: $M \in CC_1$, g



1. $K = AD \cap g$
2. $L = AB \cap g$
3. $G_1 = CD \cap g$
4. $P = MG_1 \cap DD_1$
5. KP
6. $G_2 = BC \cap g$
7. $T = MG_2 \cap BB_1$
8. LT

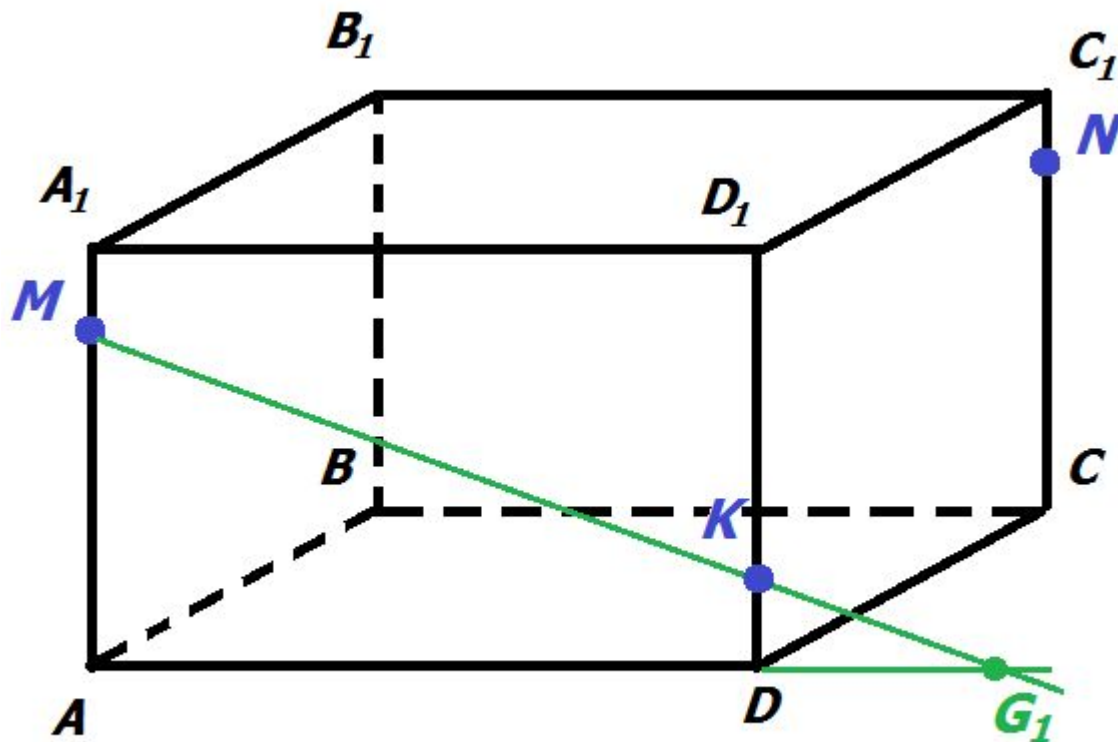
MPKLT-искомое сечение

Задача 3. $M \in AA_1, N \in CC_1,$
 $K \in DD_1$

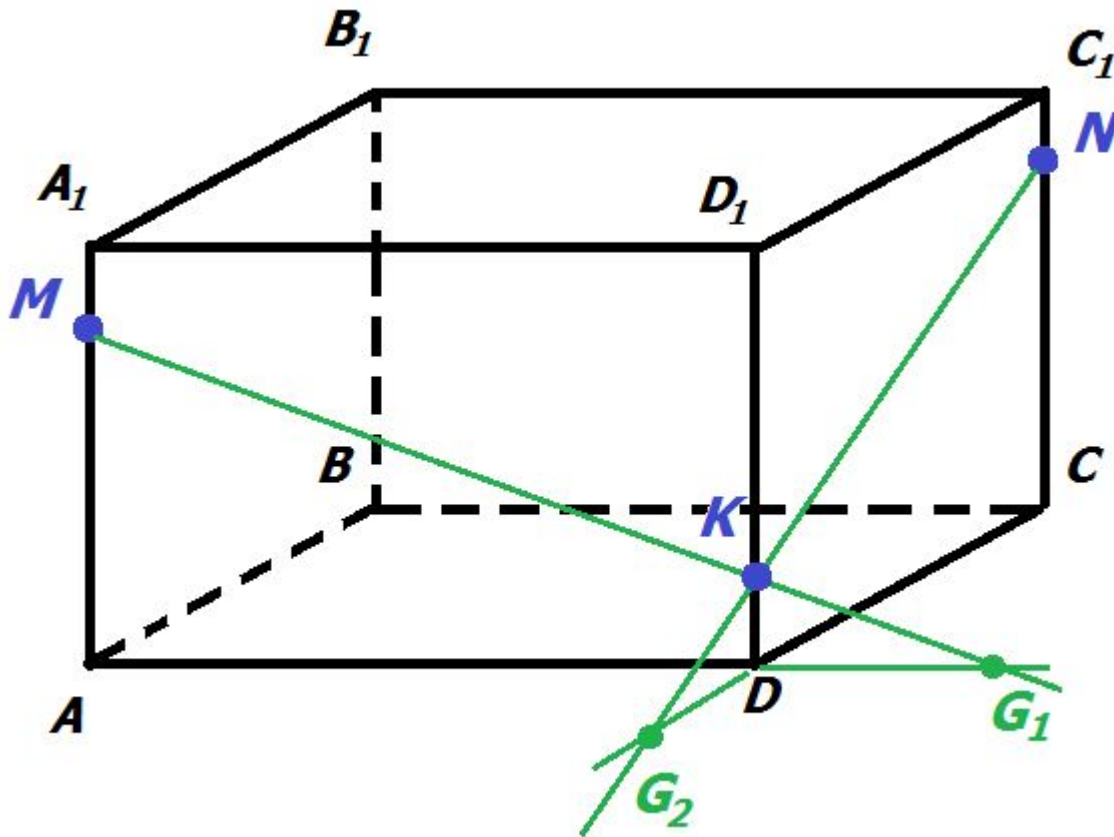


Задача 3. $M \in AA_1, N \in CC_1, K \in DD_1$

1. $G_1 = AD \cap MK$



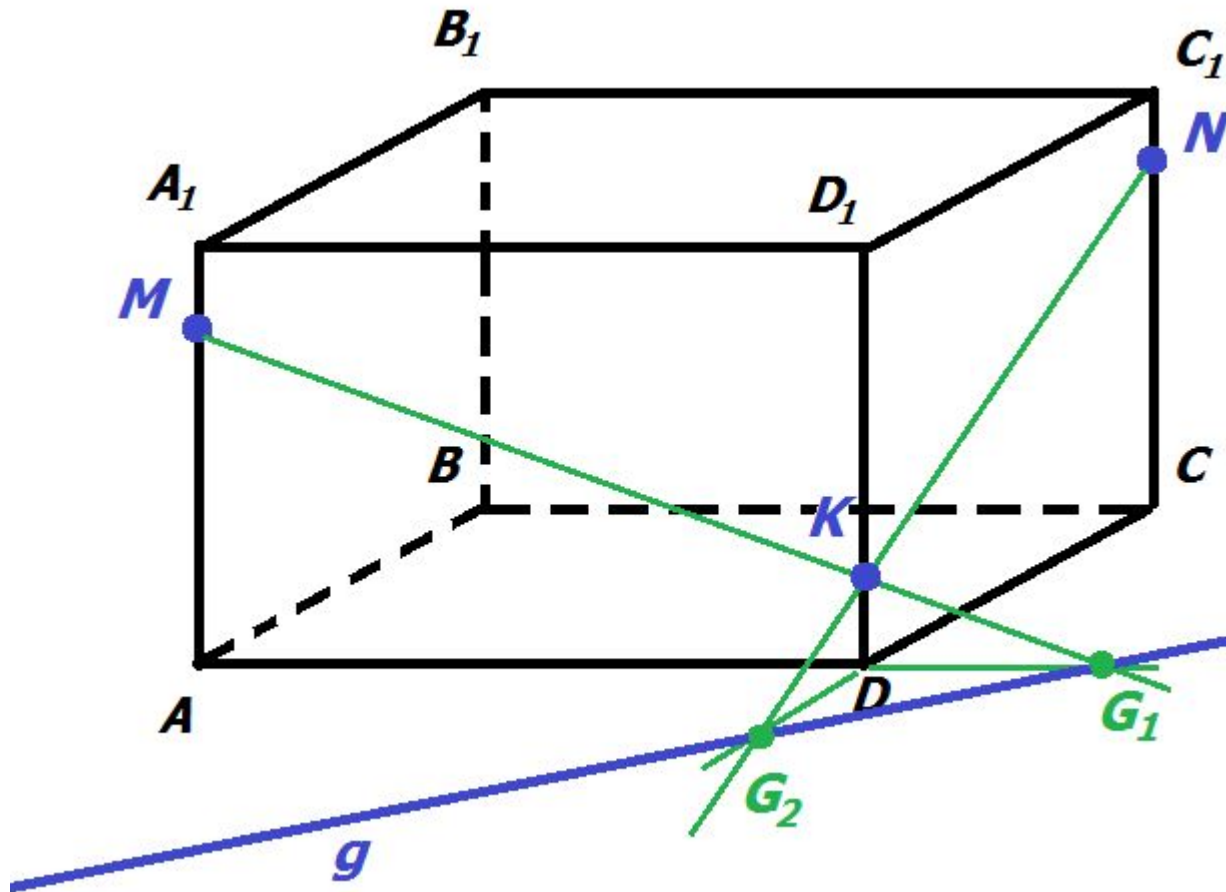
Задача 3. $M \in AA_1, N \in CC_1, K \in DD_1$



1. $G_1 = AD \cap MK$

2. $G_2 = CD \cap KN$

Задача 3. $M \in AA_1, N \in CC_1, K \in DD_1$



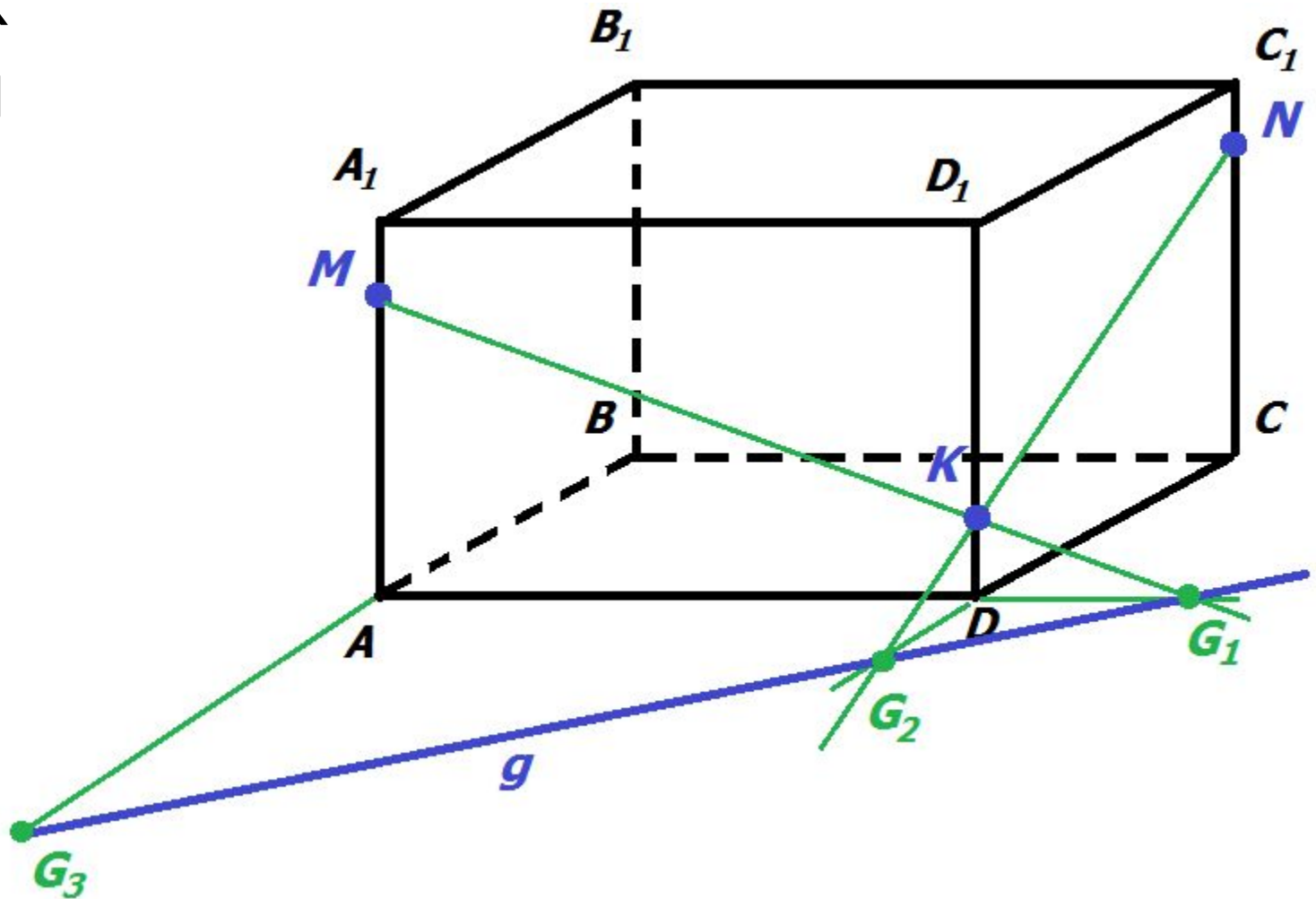
1. $G_1 = AD \cap MK$

2. $G_2 = CD \cap KN$

3. $g = G_1 G_2$

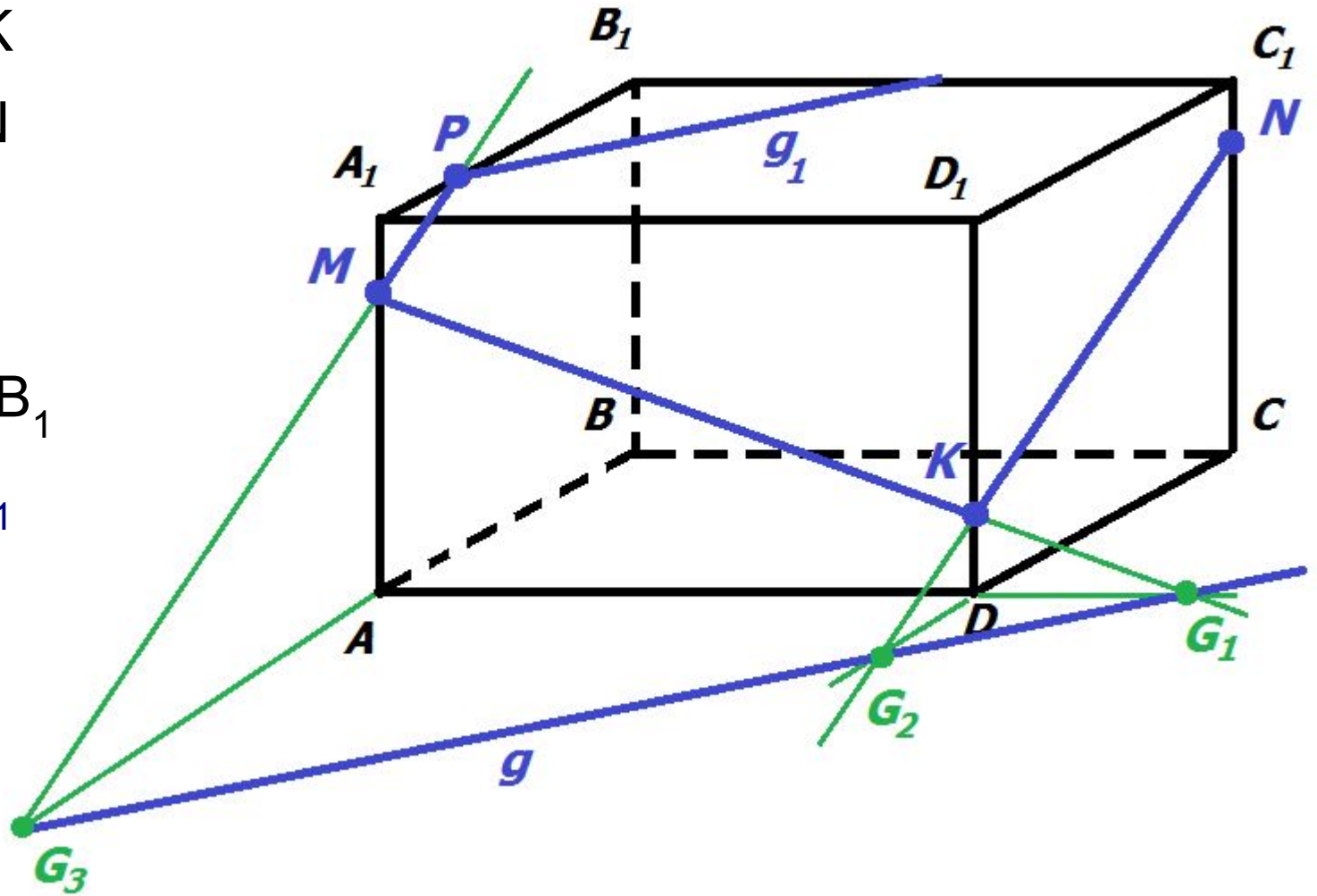
Задача 3. $M \in AA_1, N \in CC_1, K \in DD_1$

1. $G_1 = AD \cap MK$
2. $G_2 = CD \cap KN$
3. $g = G_1G_2$
4. $G_3 = AB \cap g$



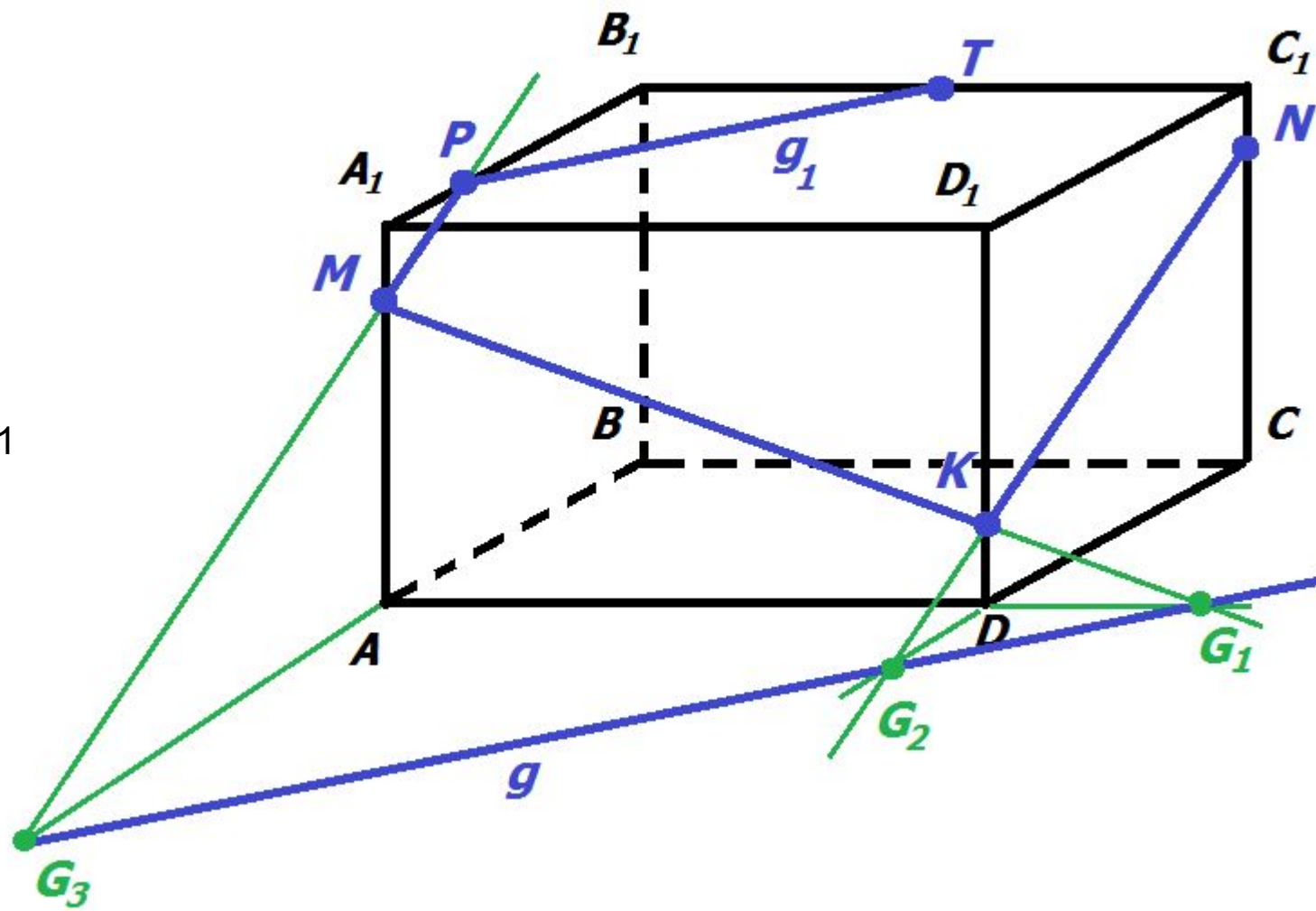
Задача 3. $M \in AA_1, N \in CC_1, K \in DD_1$

1. $G_1 = AD \cap MK$
2. $G_2 = CD \cap KN$
3. $g = G_1G_2$
4. $G_3 = AB \cap g$
5. $P = MG_3 \cap A_1B_1$
6. $g_1 \parallel g, P \in g_1$



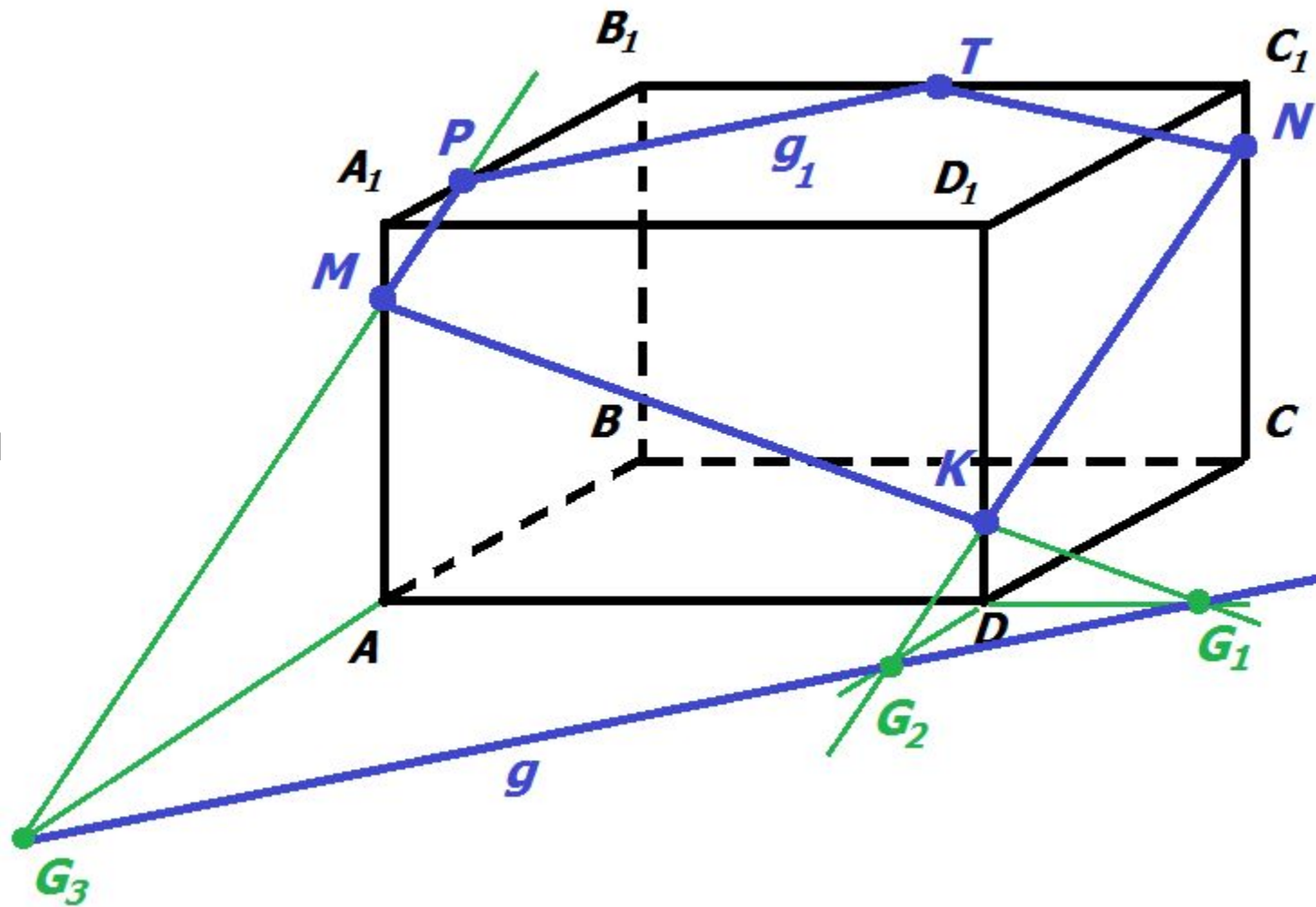
Задача 3. $M \in AA_1, N \in CC_1, K \in DD_1$

1. $G_1 = AD \cap MK$
2. $G_2 = CD \cap KN$
3. $g = G_1G_2$
4. $G_3 = AB \cap g$
5. $P = MG_3 \cap A_1B_1$
6. $g_1 \parallel g, P \in g_1$
7. $T = g_1 \cap B_1C_1$



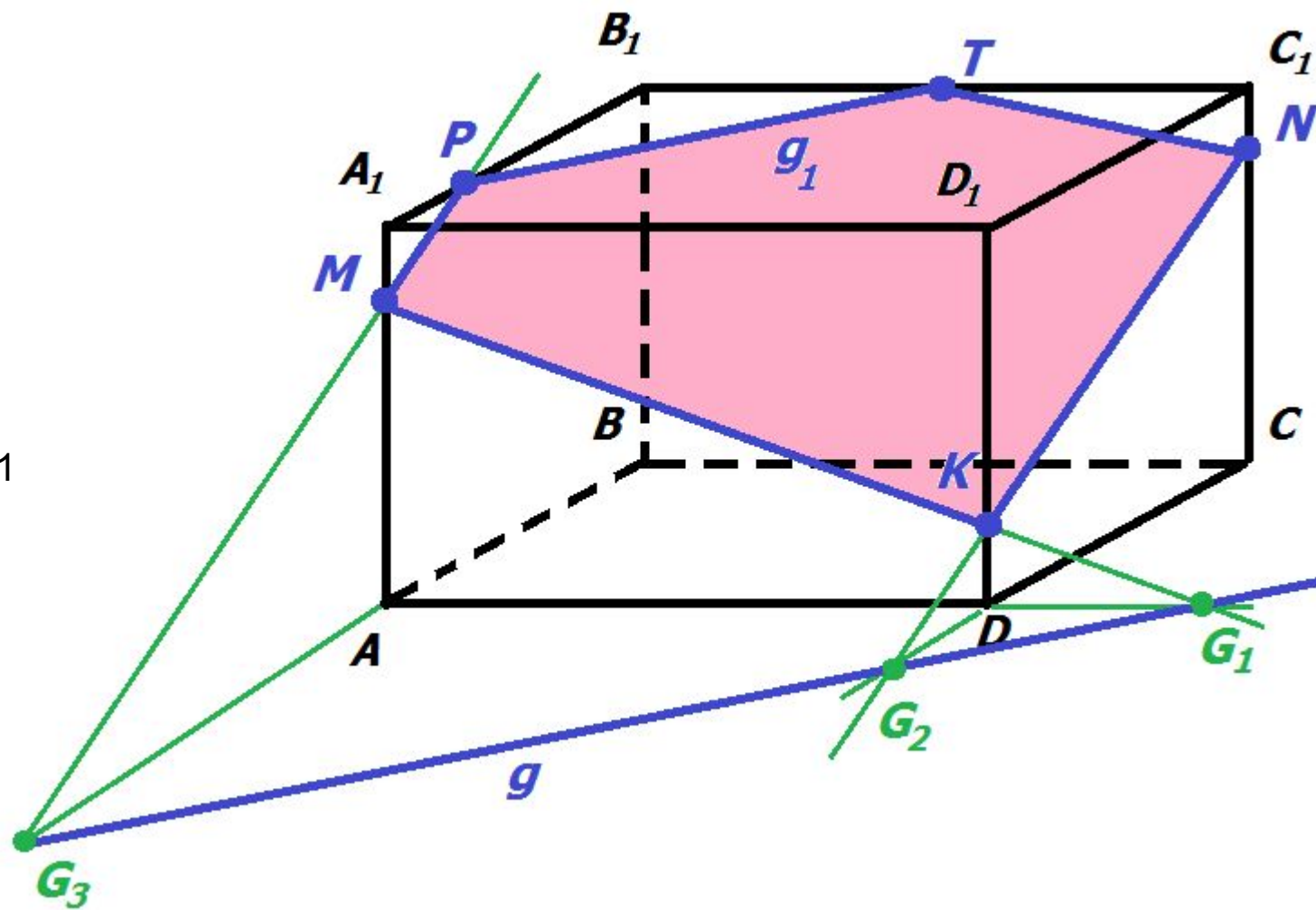
Задача 3. $M \in AA_1, N \in CC_1, K \in DD_1$

1. $G_1 = AD \cap MK$
2. $G_2 = CD \cap KN$
3. $g = G_1G_2$
4. $G_3 = AB \cap g$
5. $P = MG_3 \cap A_1B_1$
6. $g_1 \parallel g, P \in g_1$
7. $T = g_1 \cap B_1C_1$
8. TN



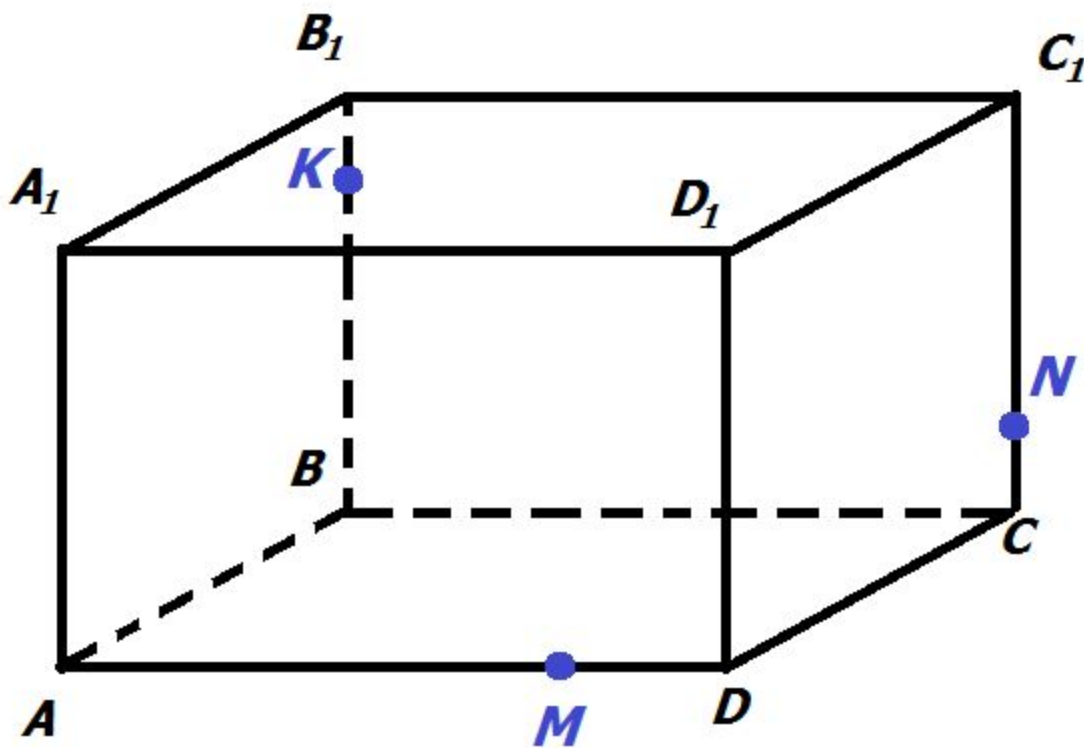
Задача 3. $M \in AA_1, N \in CC_1, K \in DD_1$

1. $G_1 = AD \cap MK$
2. $G_2 = CD \cap KN$
3. $g = G_1G_2$
4. $G_3 = AB \cap g$
5. $P = MG_3 \cap A_1B_1$
6. $g_1 \parallel g, P \in g_1$
7. $T = g_1 \cap B_1C_1$
8. TN



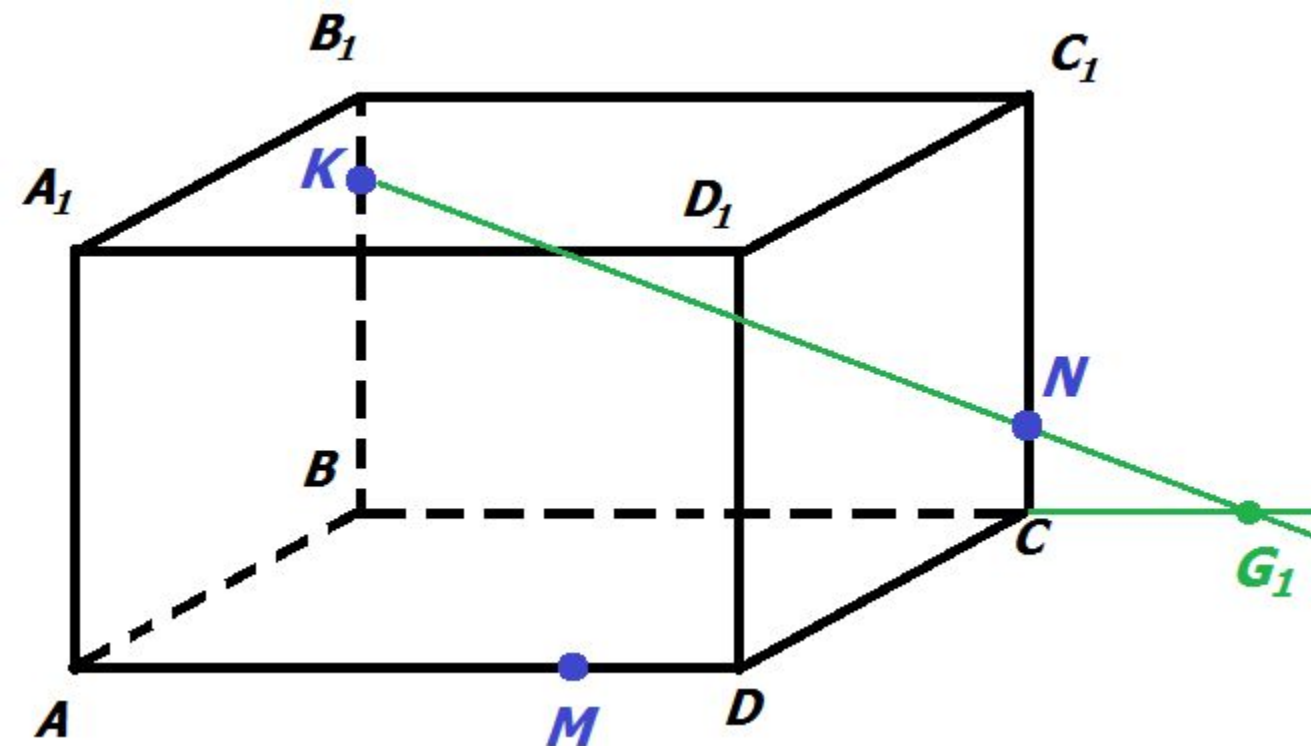
МКНТР-искмое сечение

Задача 4. $M \in AD, N \in CC_1, K \in BB_1$



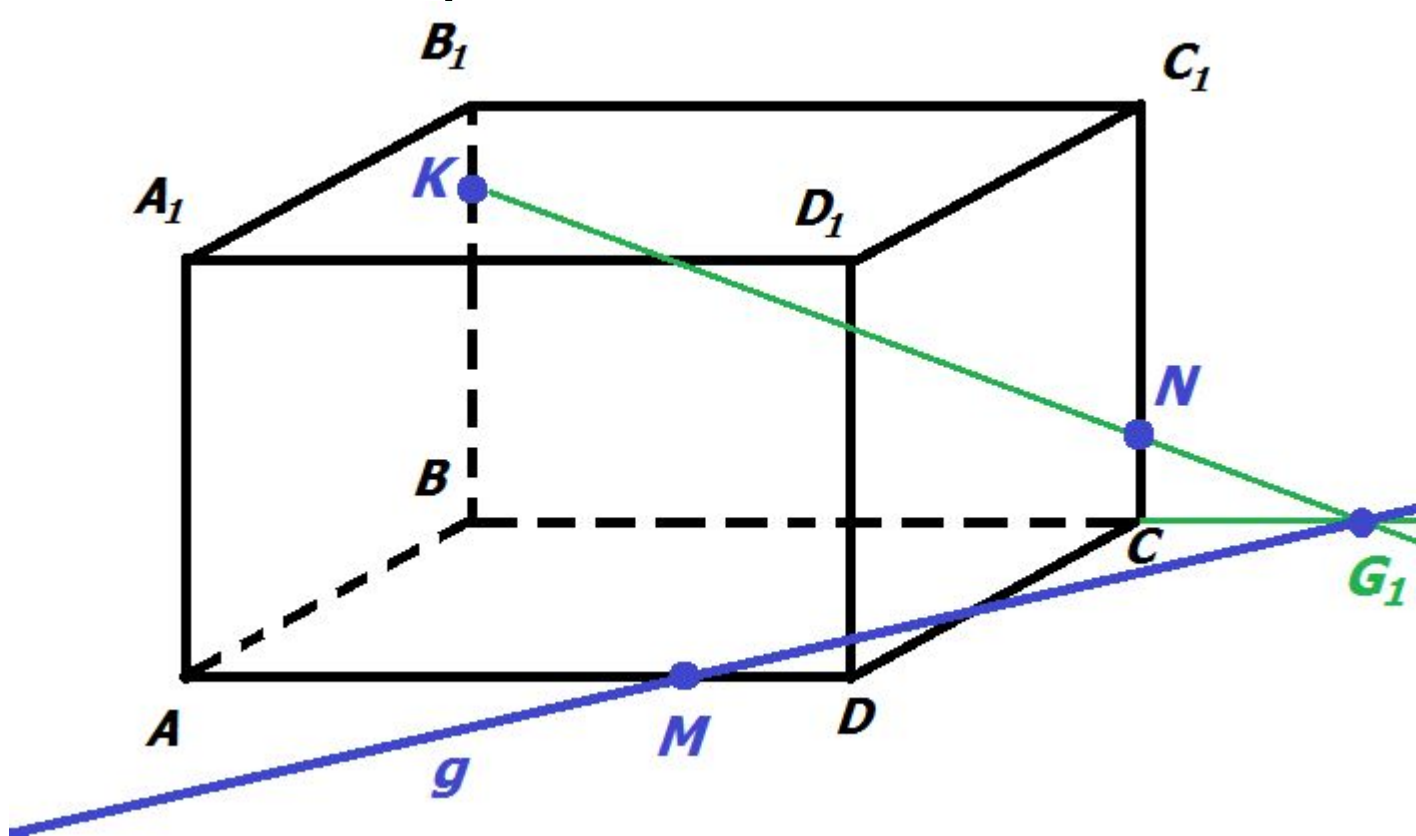
Задача 4. $M \in AD, N \in CC_1, K \in BB_1$

1. $G_1 = BC \cap KN$



Задача 4. $M \in AD, N \in CC_1,$

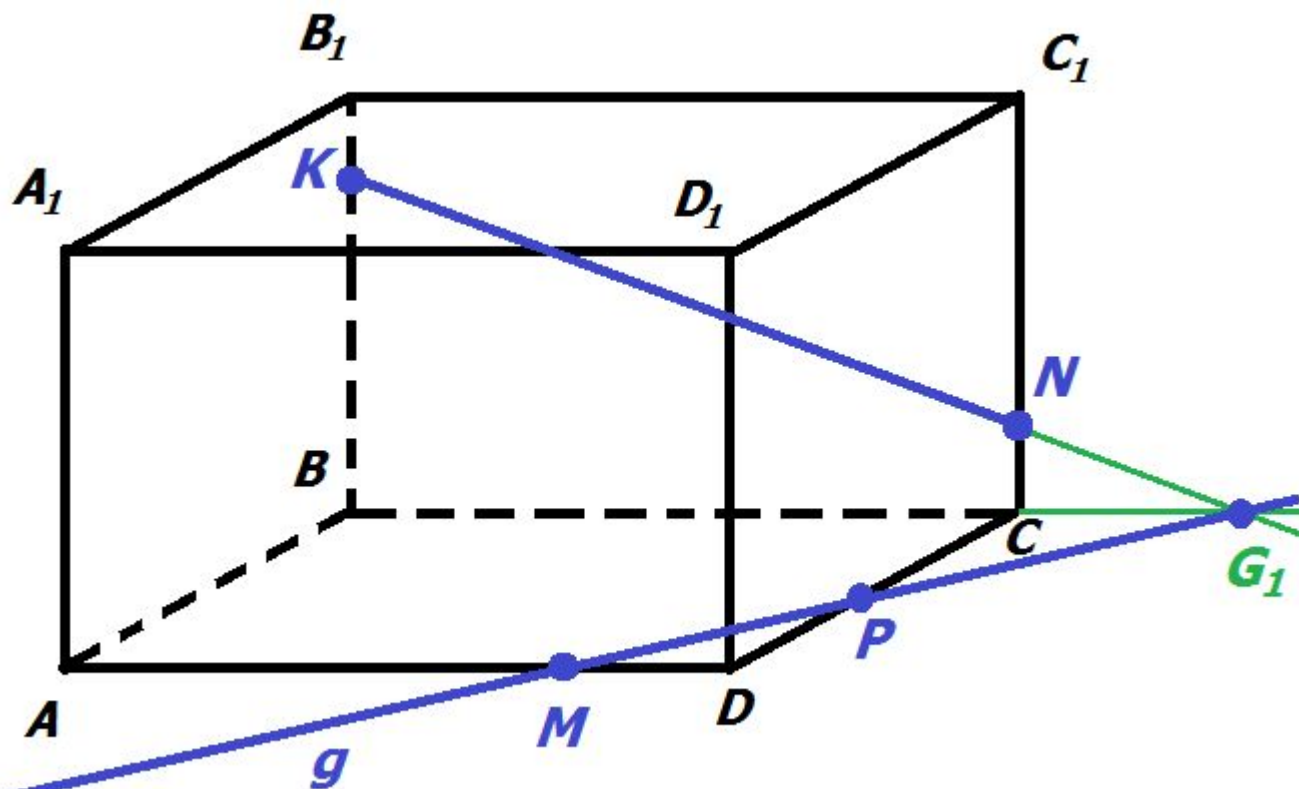
$K \in BB_1$



1. $G_1 = BC \cap KN$

2. $g = MG_1$

Задача 4. $M \in AD, N \in CC_1,$
 $K \in BB_1$



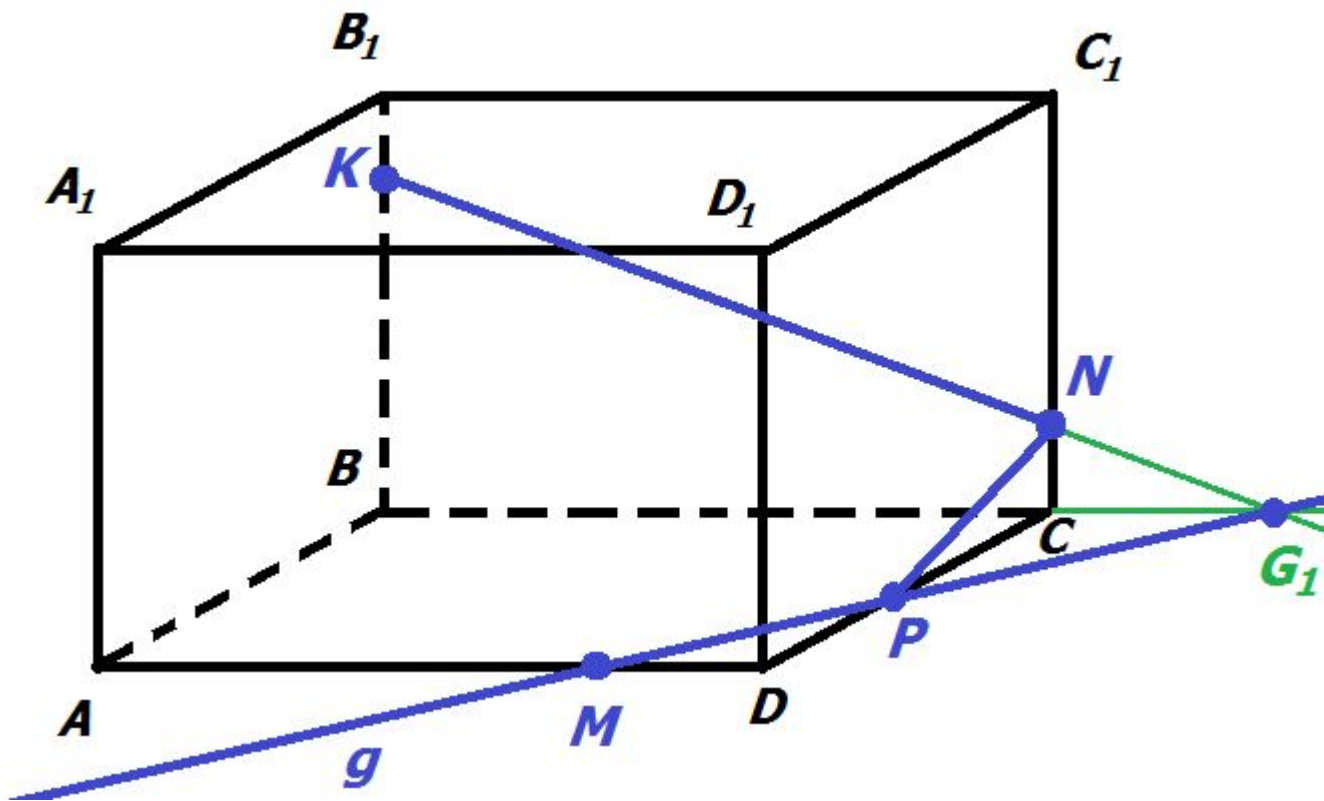
1. $G_1 = BC \cap KN$

2. $g = MG_1$

3. $P = g \cap CD$

Задача 4. $M \in AD, N \in CC_1,$

$K \in BB_1$



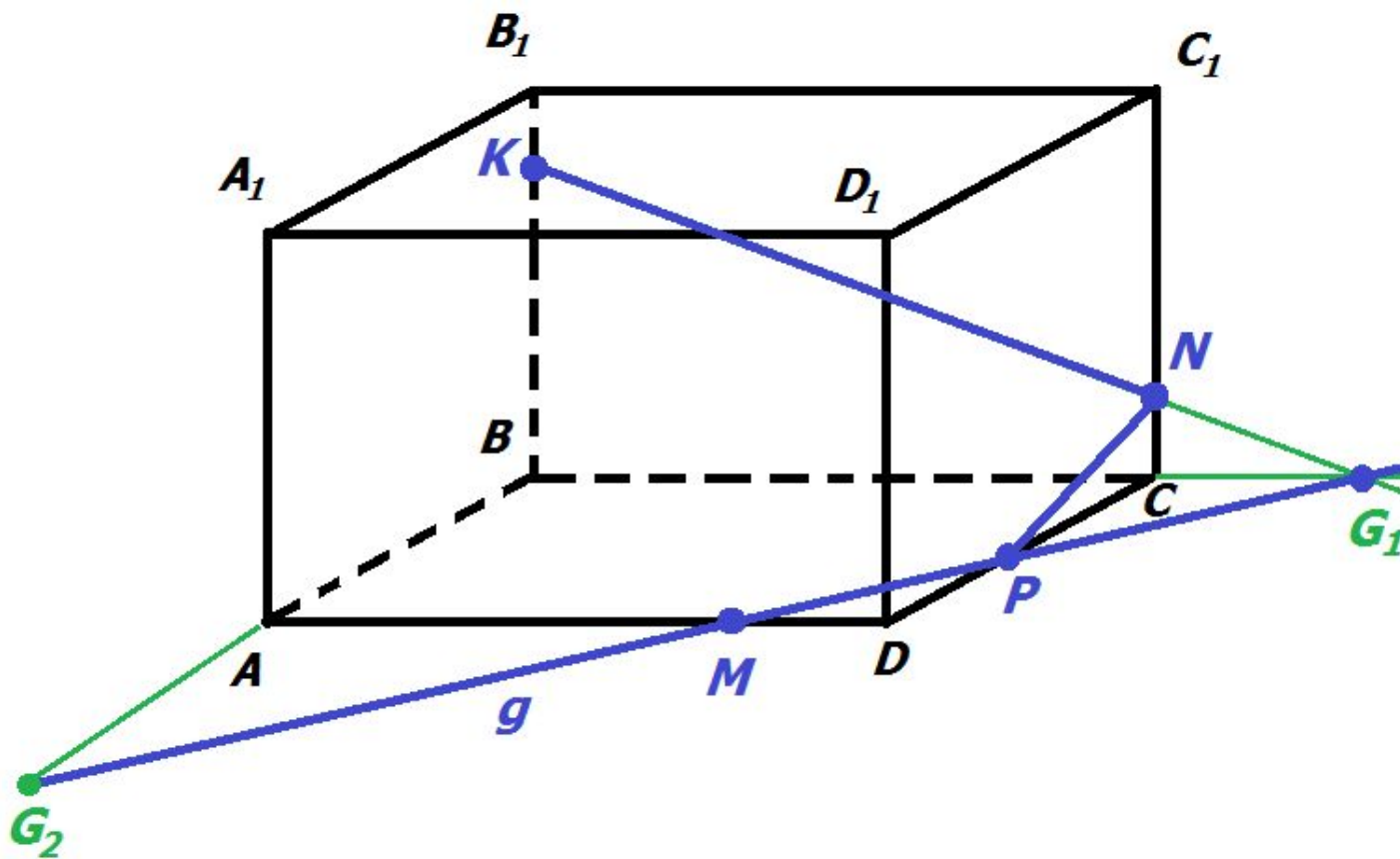
1. $G_1 = BC \cap KN$

2. $g = MG_1$

3. $P = g \cap CD$

4. PN

Задача 4. $M \in AD, N \in CC_1,$
 $K \in BB_1$



1. $G_1 = BC \cap KN$

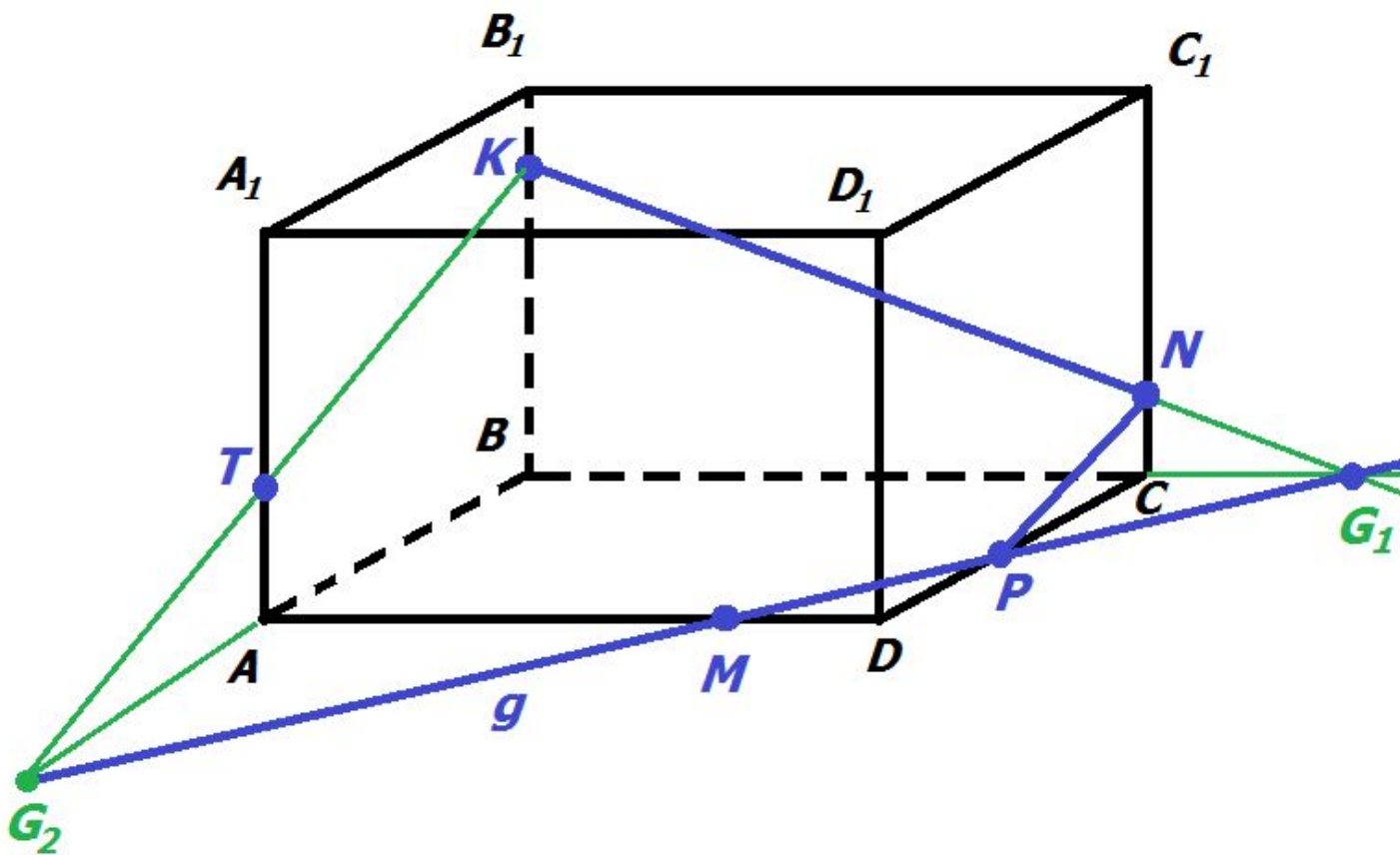
2. $g = MG_1$

3. $P = g \cap CD$

4. PN

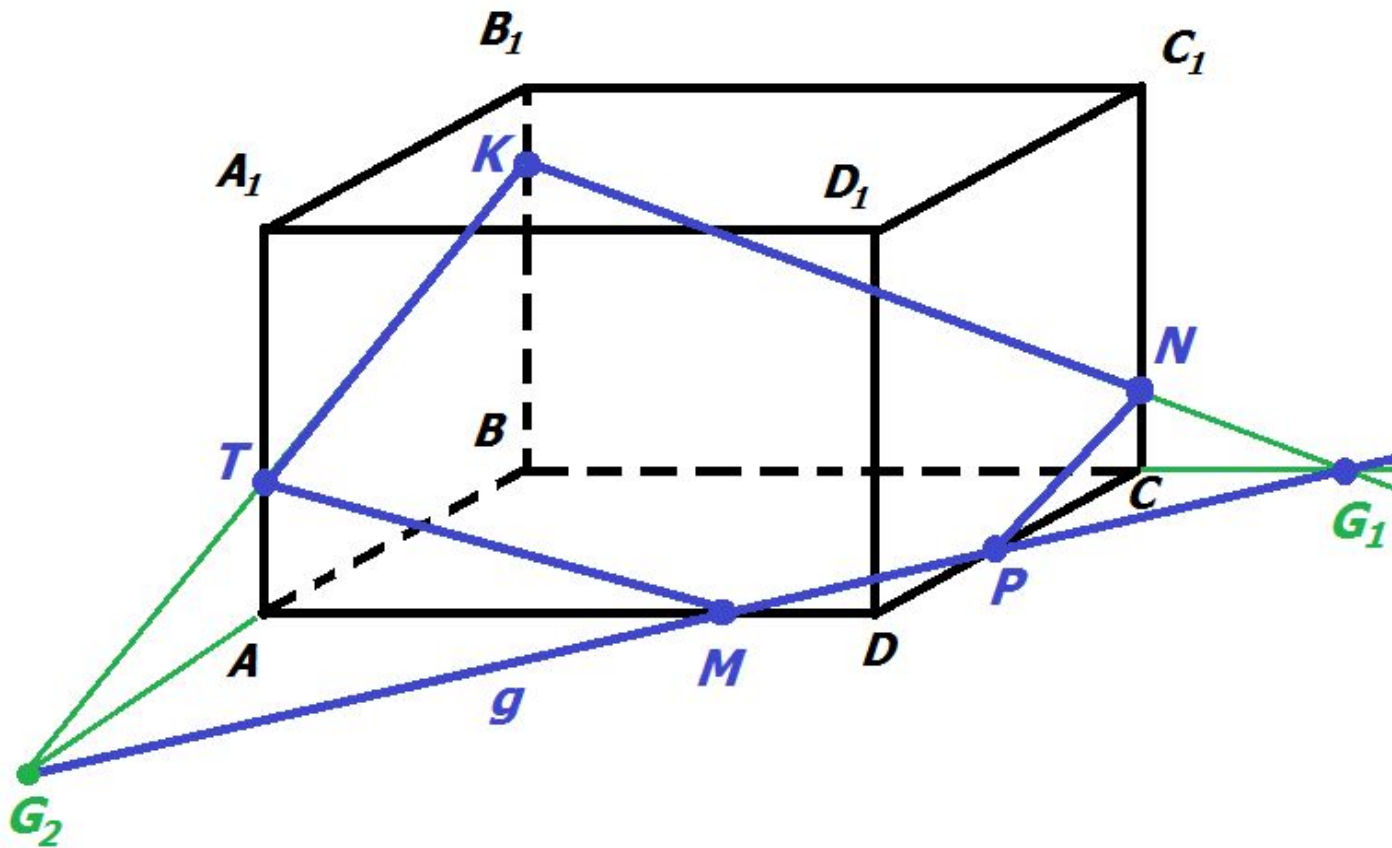
5. $G_2 = AB \cap g$

Задача 4. $M \in AD, N \in CC_1,$
 $K \in BB_1$



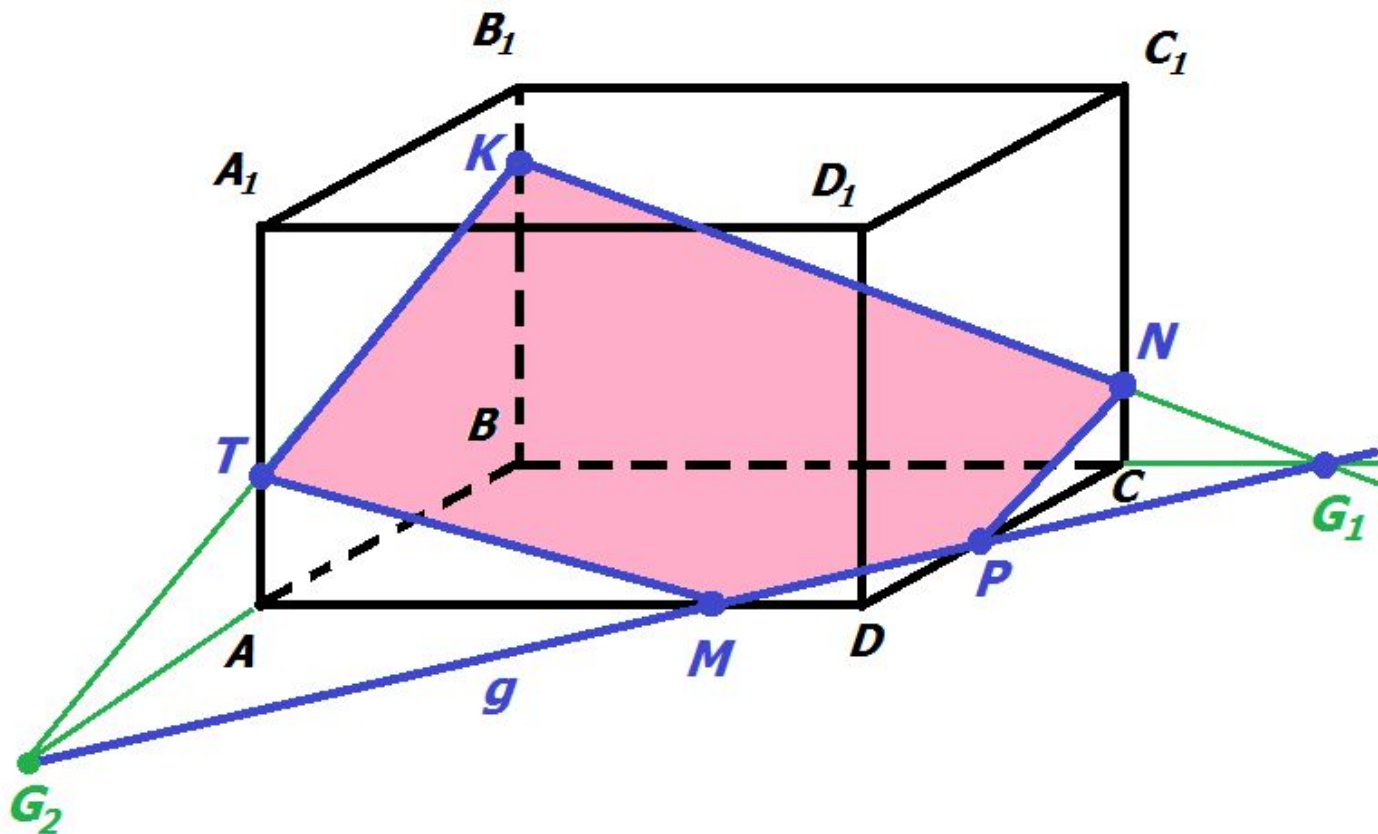
1. $G_1 = BC \cap KN$
2. $g = MG_1$
3. $P = g \cap CD$
4. PN
5. $G_2 = AB \cap g$
6. $T = AA_1 \cap KG_2$

Задача 4. $M \in AD, N \in CC_1,$
 $K \in BB_1$



1. $G_1 = BC \cap KN$
2. $g = MG_1$
3. $P = g \cap CD$
4. PN
5. $G_2 = BC \cap KN$
6. $T = AA_1 \cap KG_2$
7. TM

Задача 4. $M \in AD, N \in CC_1,$
 $K \in BB_1$



1. $G_1 = BC \cap KN$
2. $g = MG_1$
3. $P = g \cap CD$
4. PN
5. $G_2 = AB \cap g$
6. $T = AA_1 \cap KG_2$
7. TM

MPNKT-искomое сечение