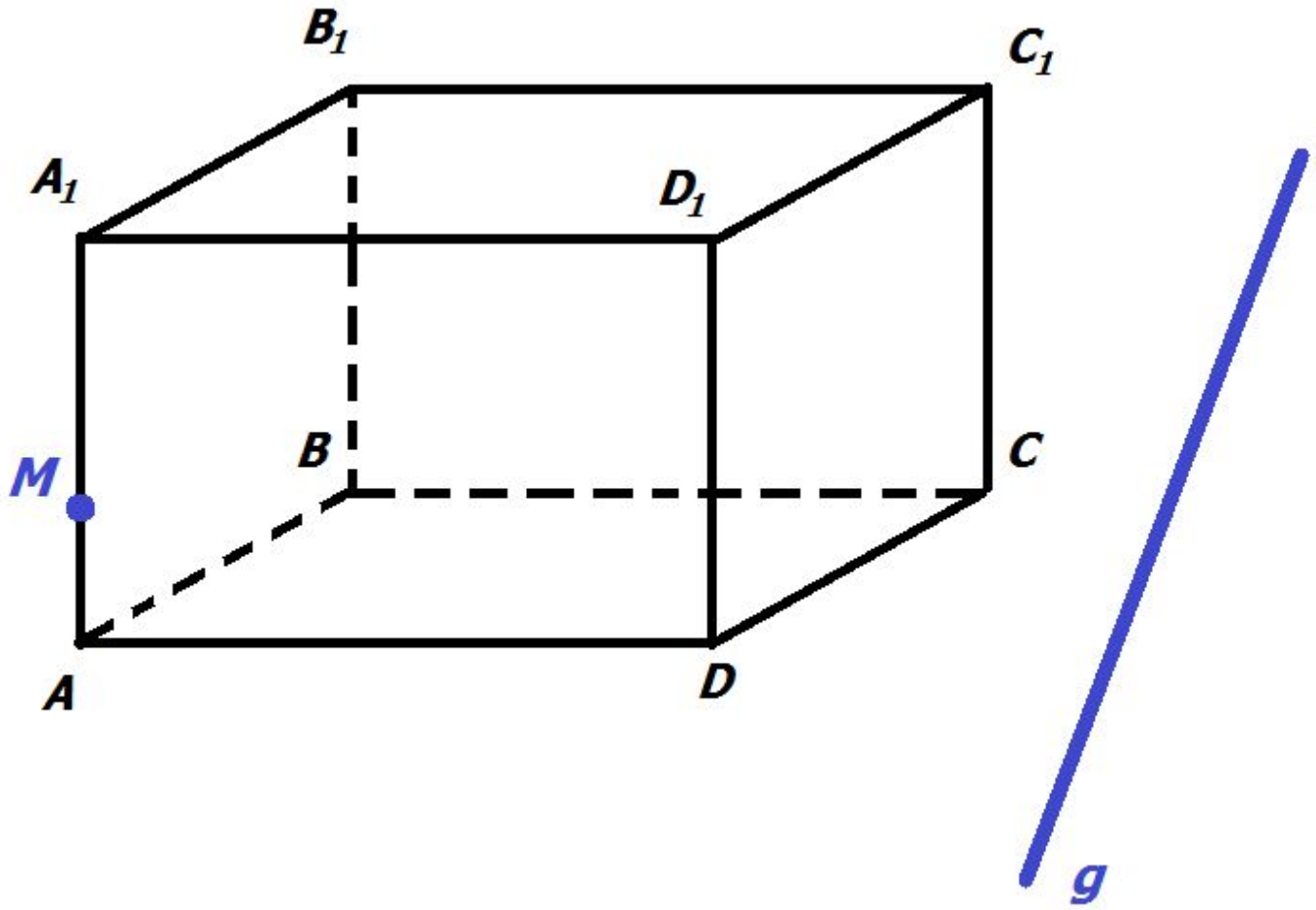
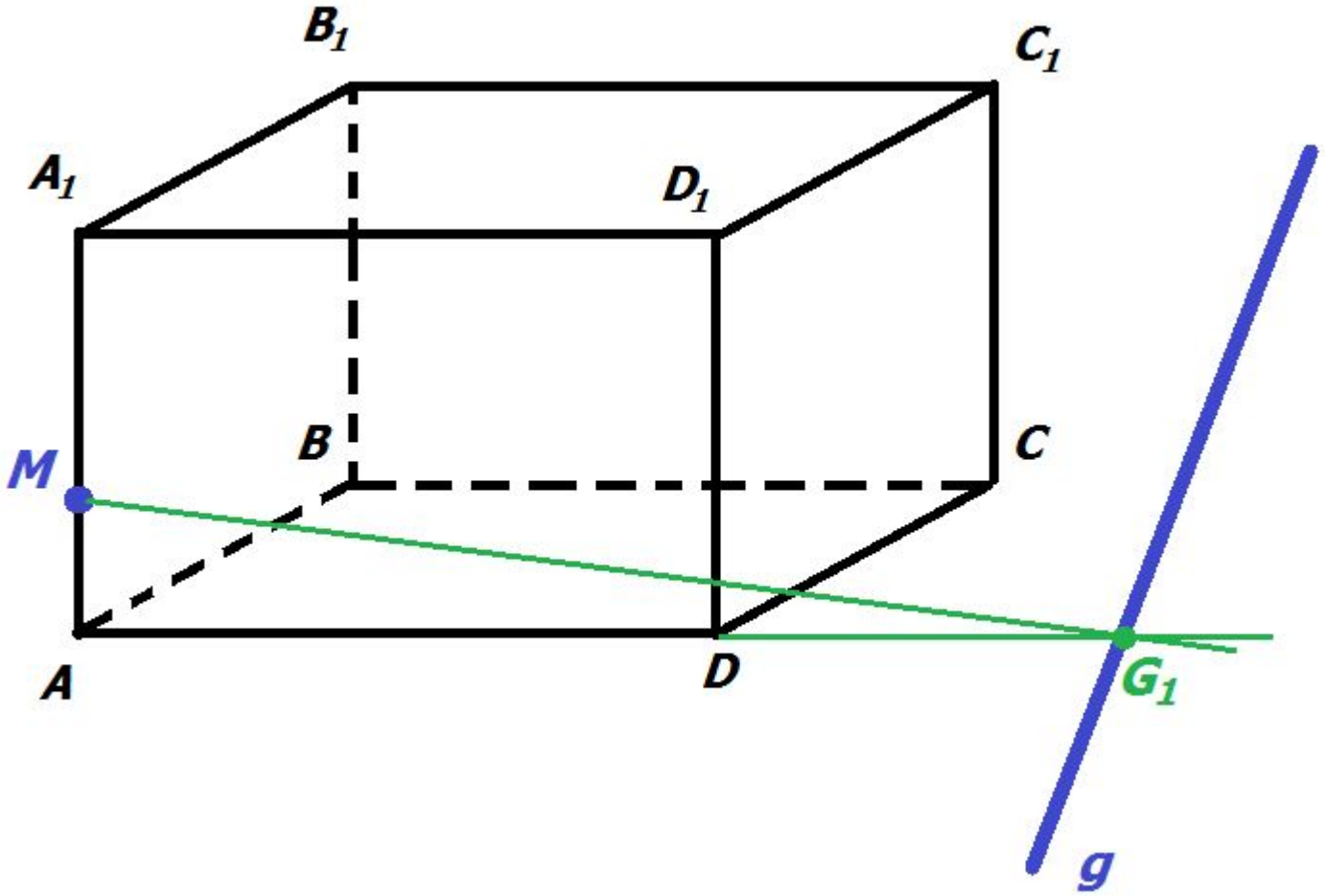
Построение сечений параллелепипеда

Задача 1. Дано: $M \in AA_1$, g

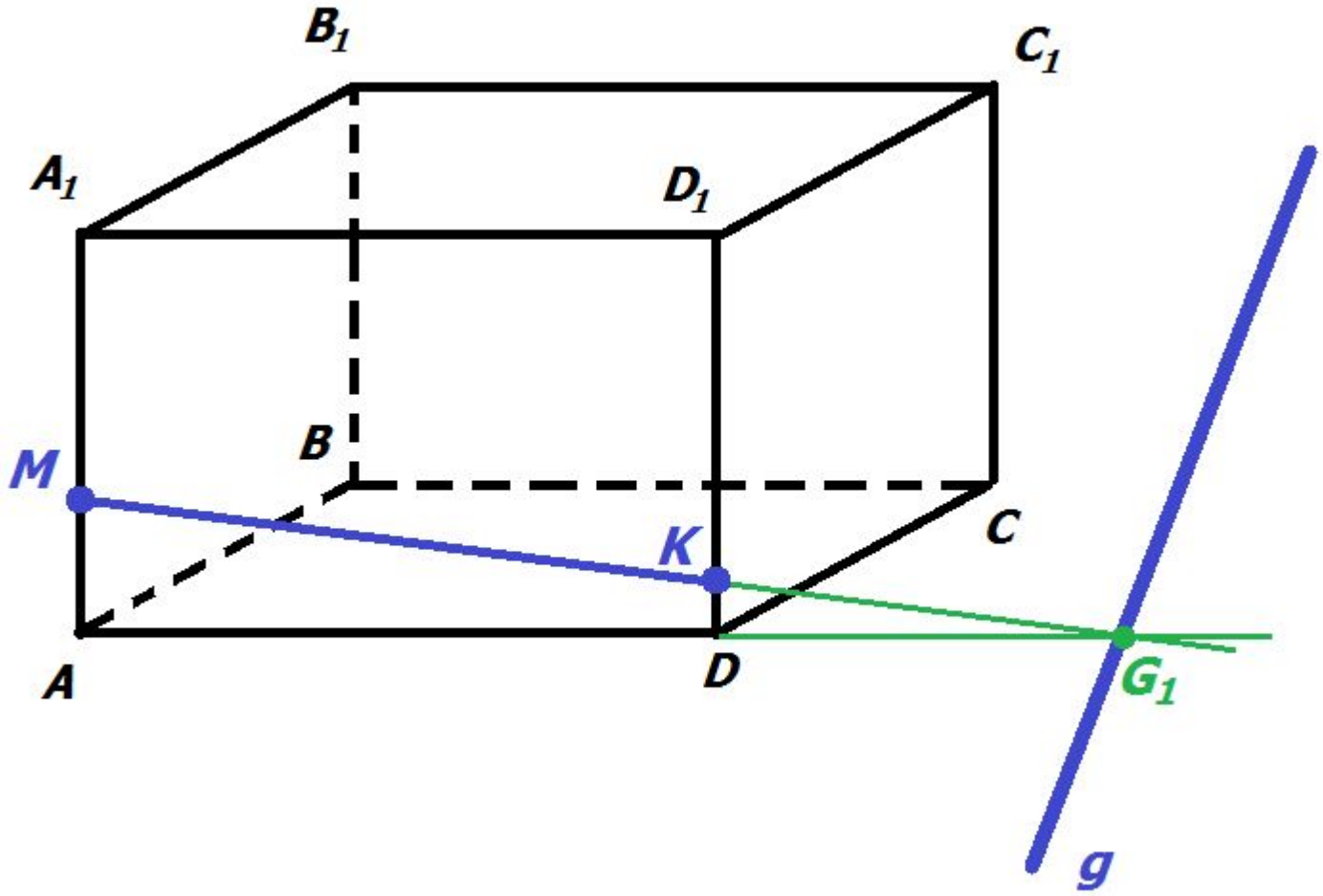


Задача 1. Дано: $M \in AA_1$, g

1.$G_1 = AD \cap g$

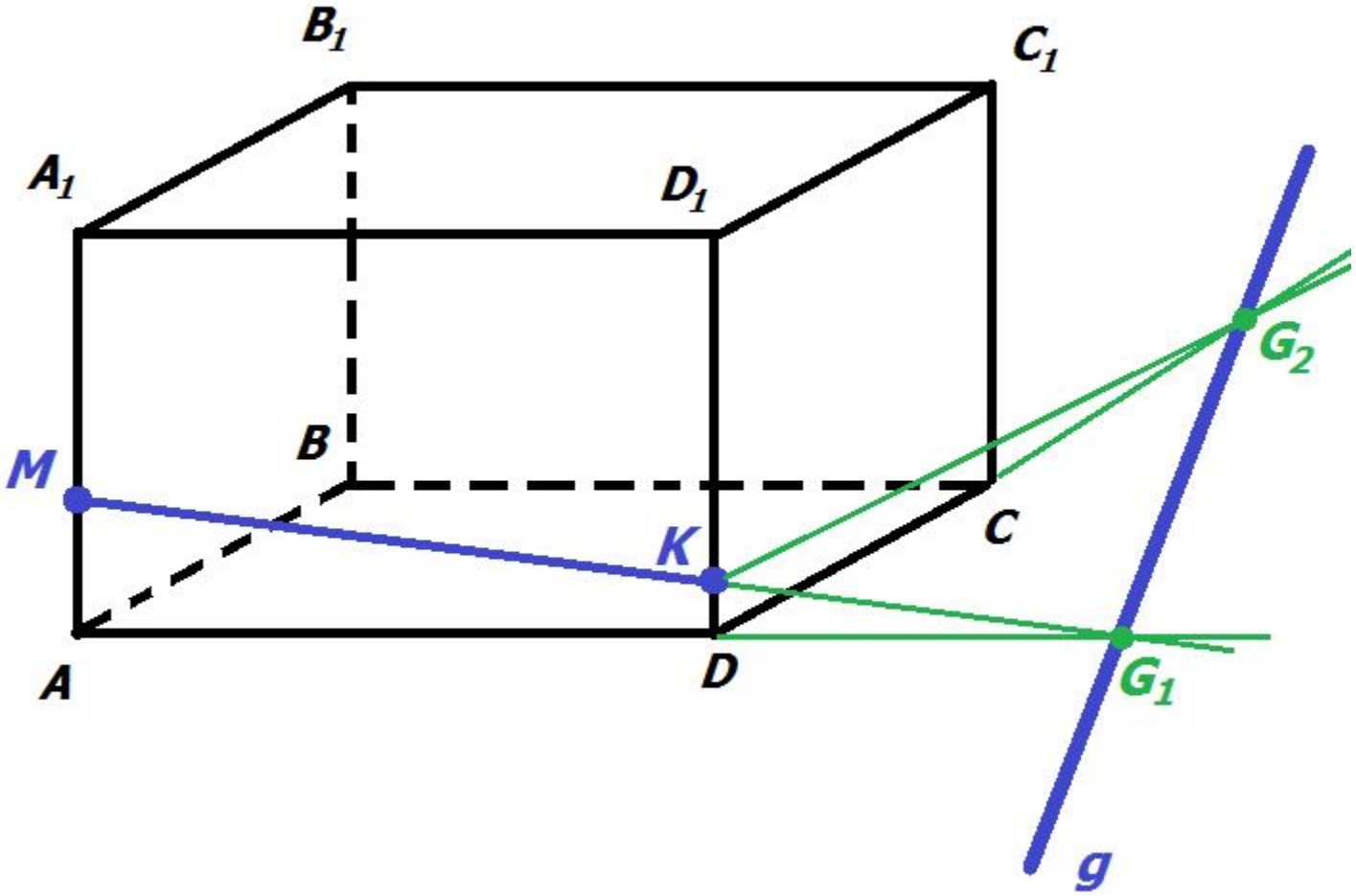


Задача 1. Дано: $M \in AA_1$, g



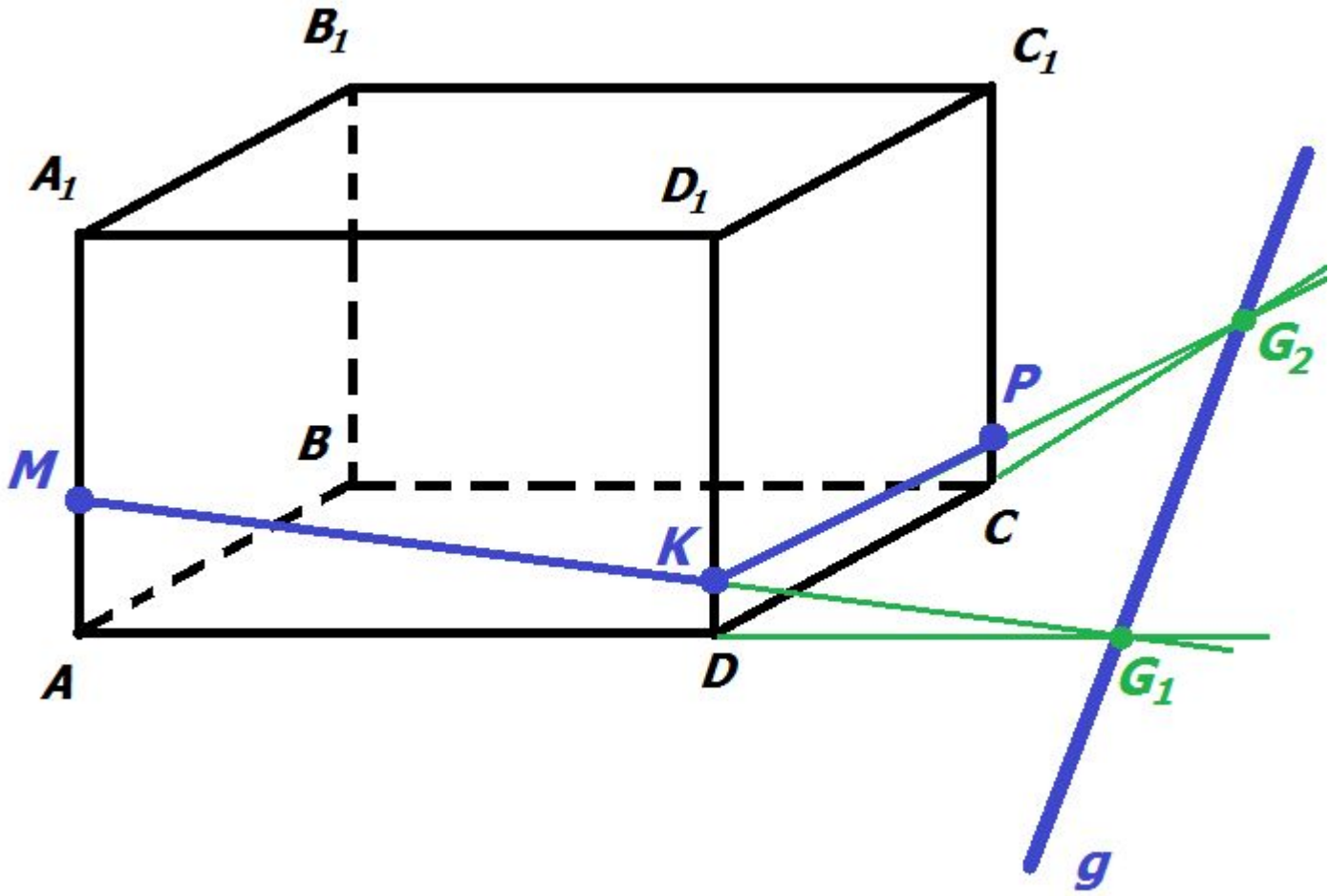
1. $G_1 = AD \cap g$
2. $K = MG_1 \cap DD_1$

Задача 1. Дано: $M \in AA_1$, g



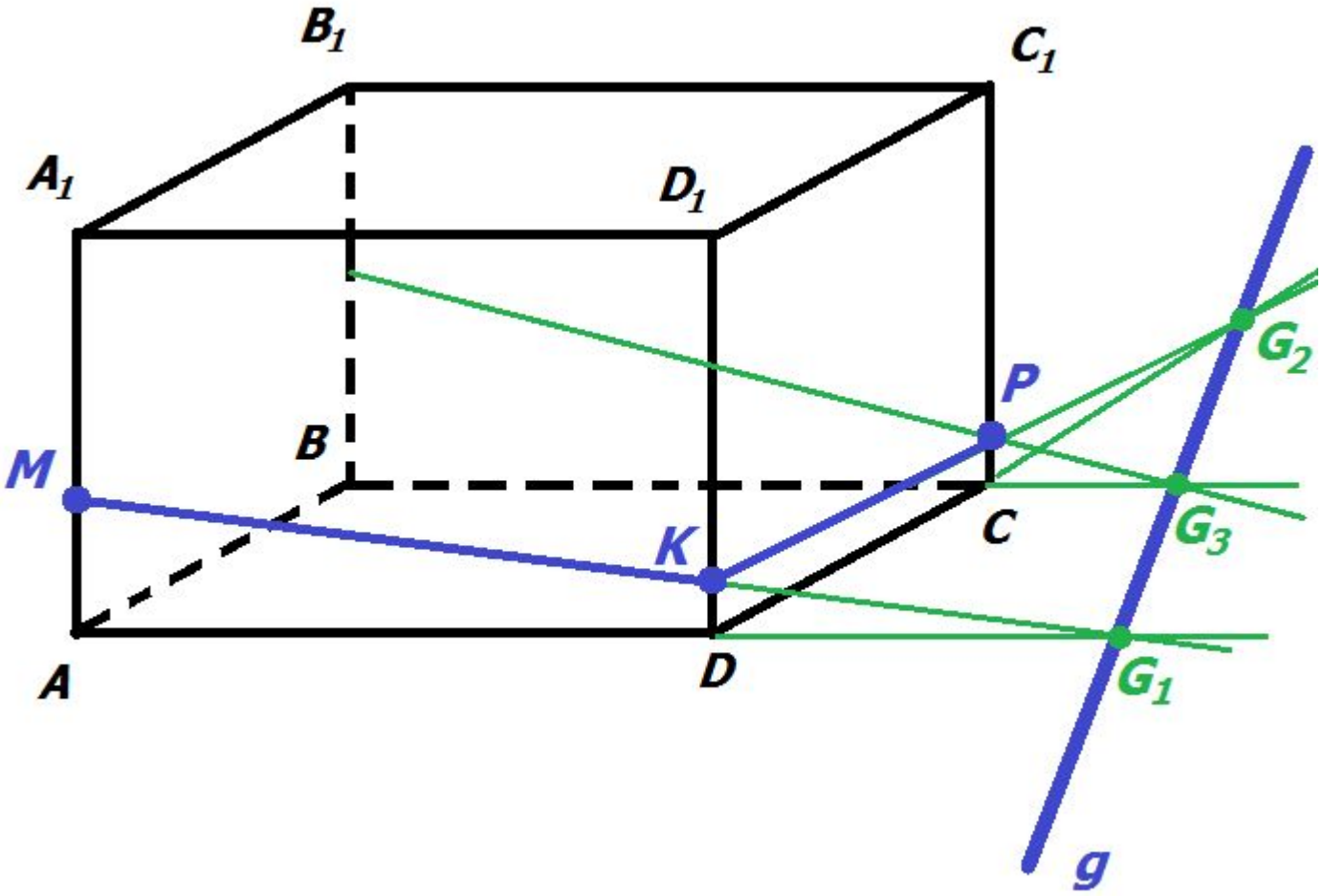
1. $G_1 = AD \cap g$
2. $K = MG_1 \cap DD_1$
3. $G_2 = CD \cap g$

Задача 1. Дано: $M \in AA_1$, g



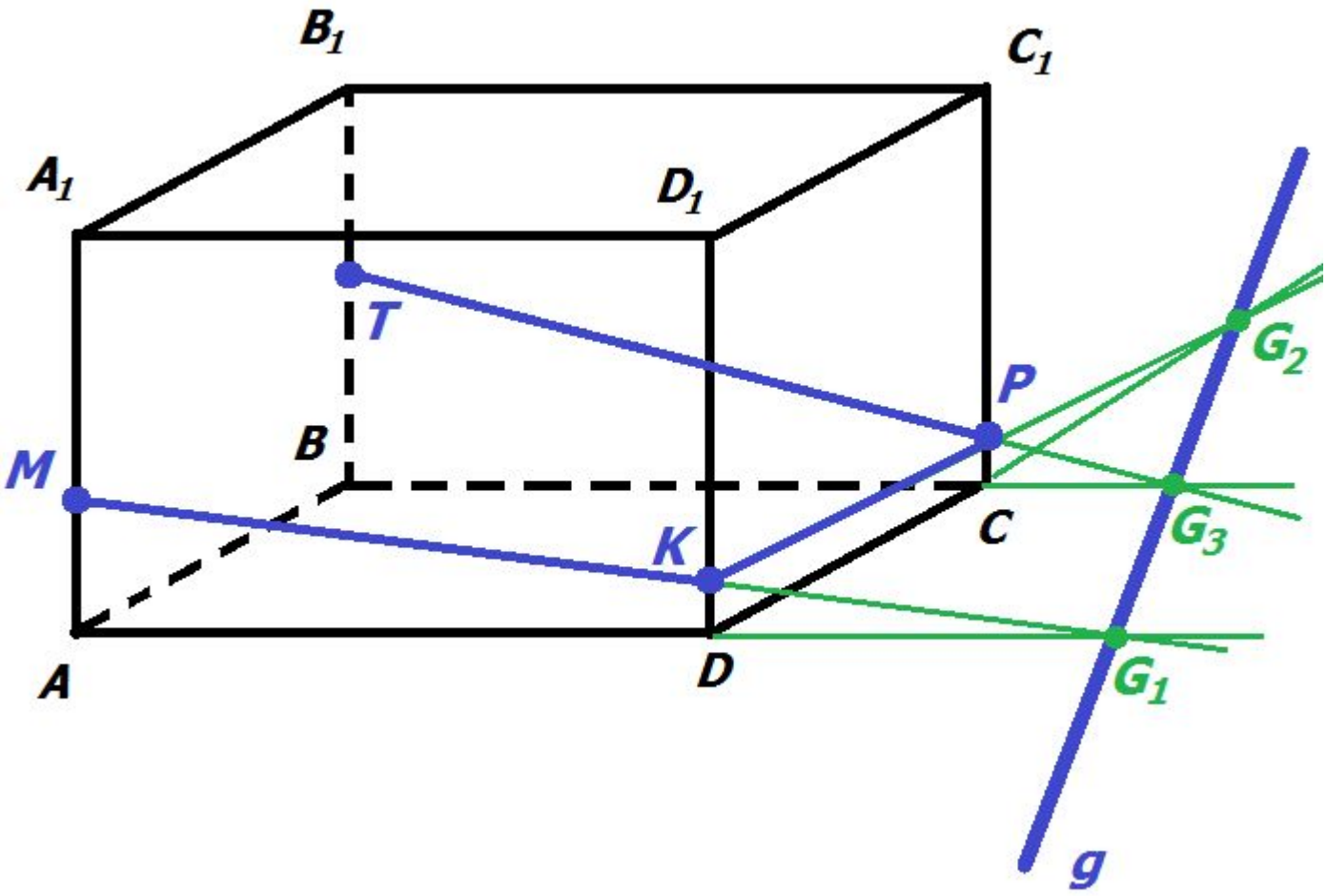
1. $G_1 = AD \cap g$
2. $K = MG_1 \cap DD_1$
3. $G_2 = CD \cap g$
4. $P = KG_2 \cap CC_1$

Задача 1. Дано: $M \in AA_1$, g



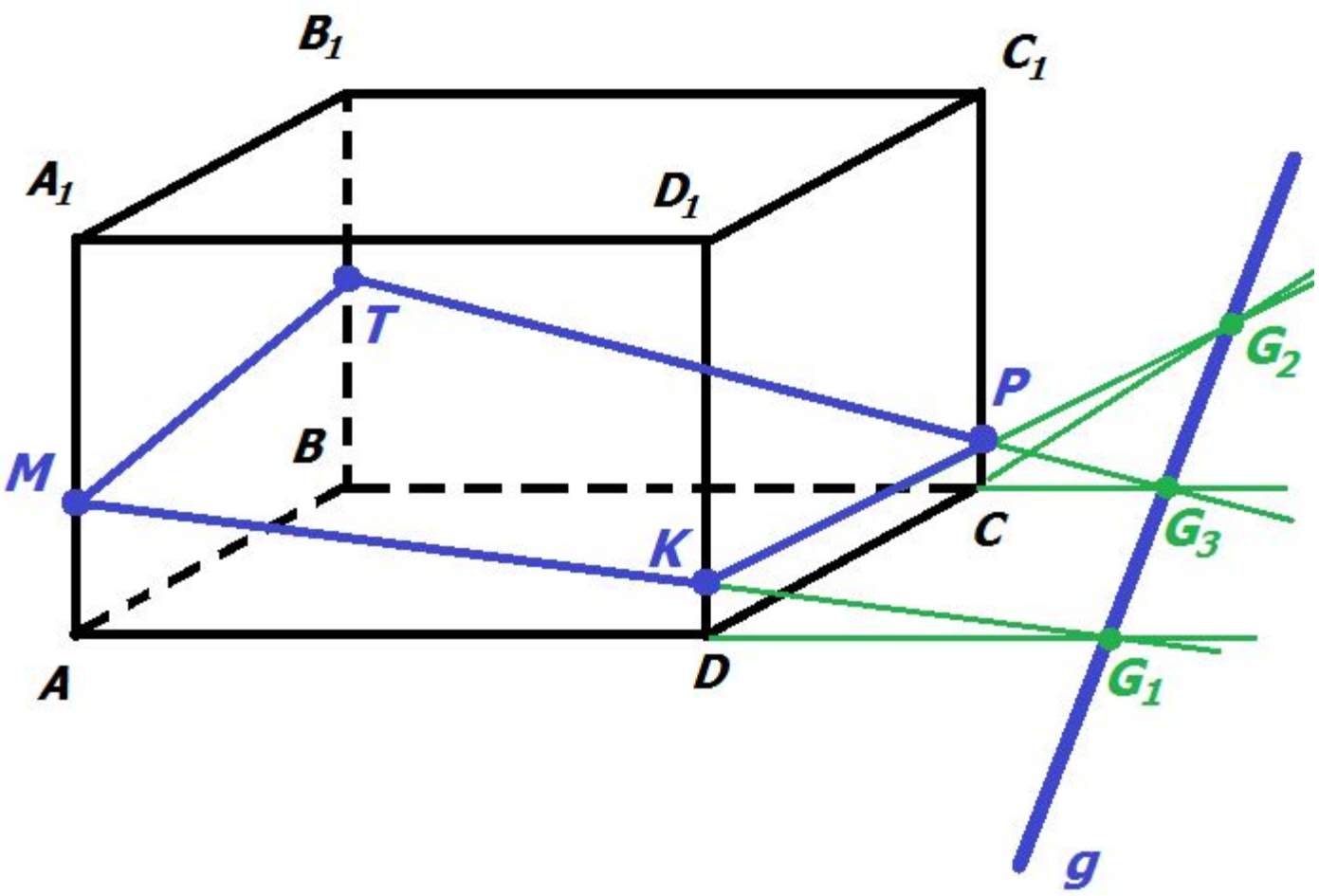
1. $G_1 = AD \cap g$
2. $K = MG_1 \cap DD_1$
3. $G_2 = CD \cap g$
4. $P = KG_2 \cap CC_1$
5. $G_3 = BC \cap g$

Задача 1. Дано: $M \in AA_1$, g



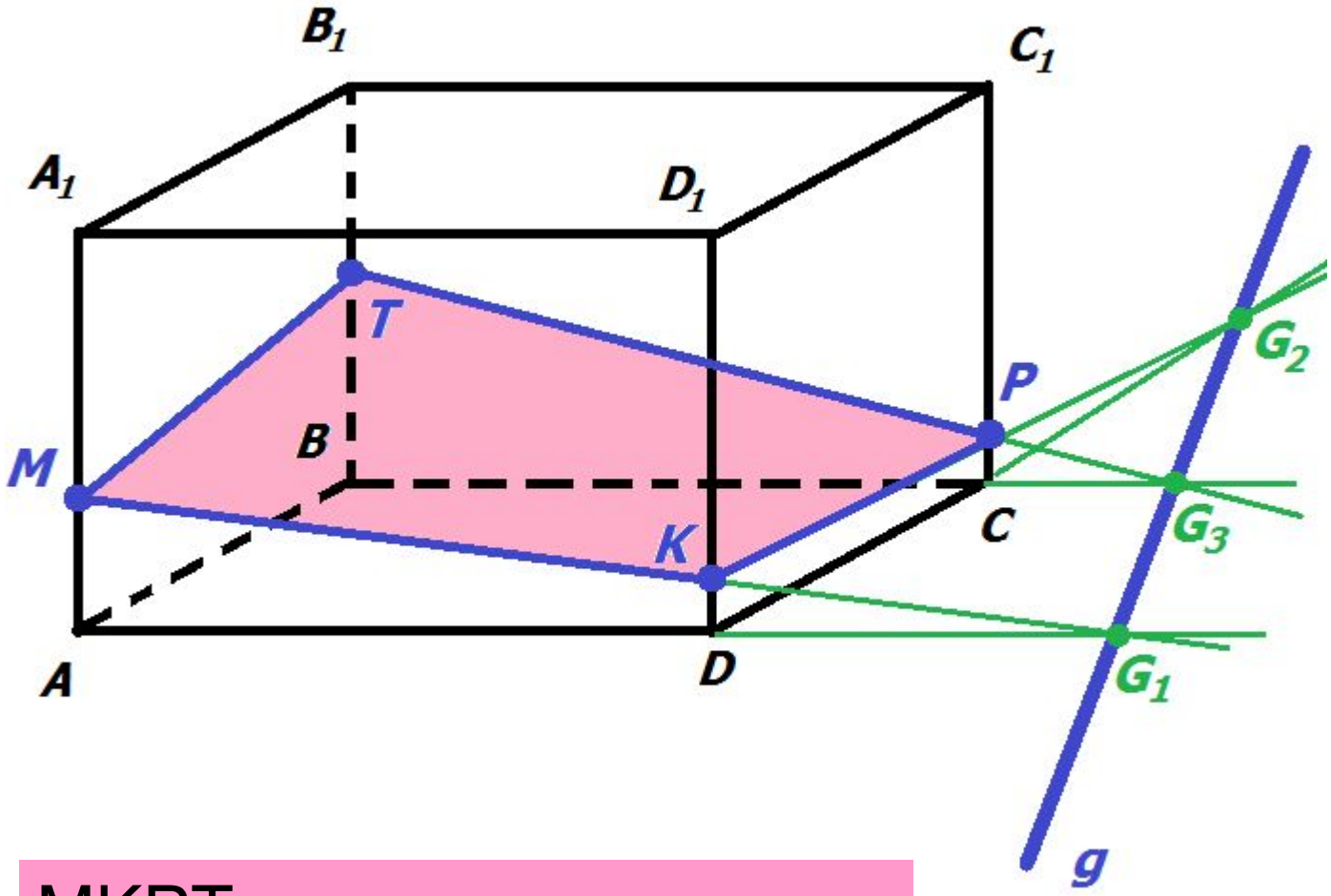
1. $G_1 = AD \cap g$
2. $K = MG_1 \cap DD_1$
3. $G_2 = CD \cap g$
4. $P = KG_2 \cap CC_1$
5. $G_3 = BC \cap g$
6. $T = PG_3 \cap BB_1$

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

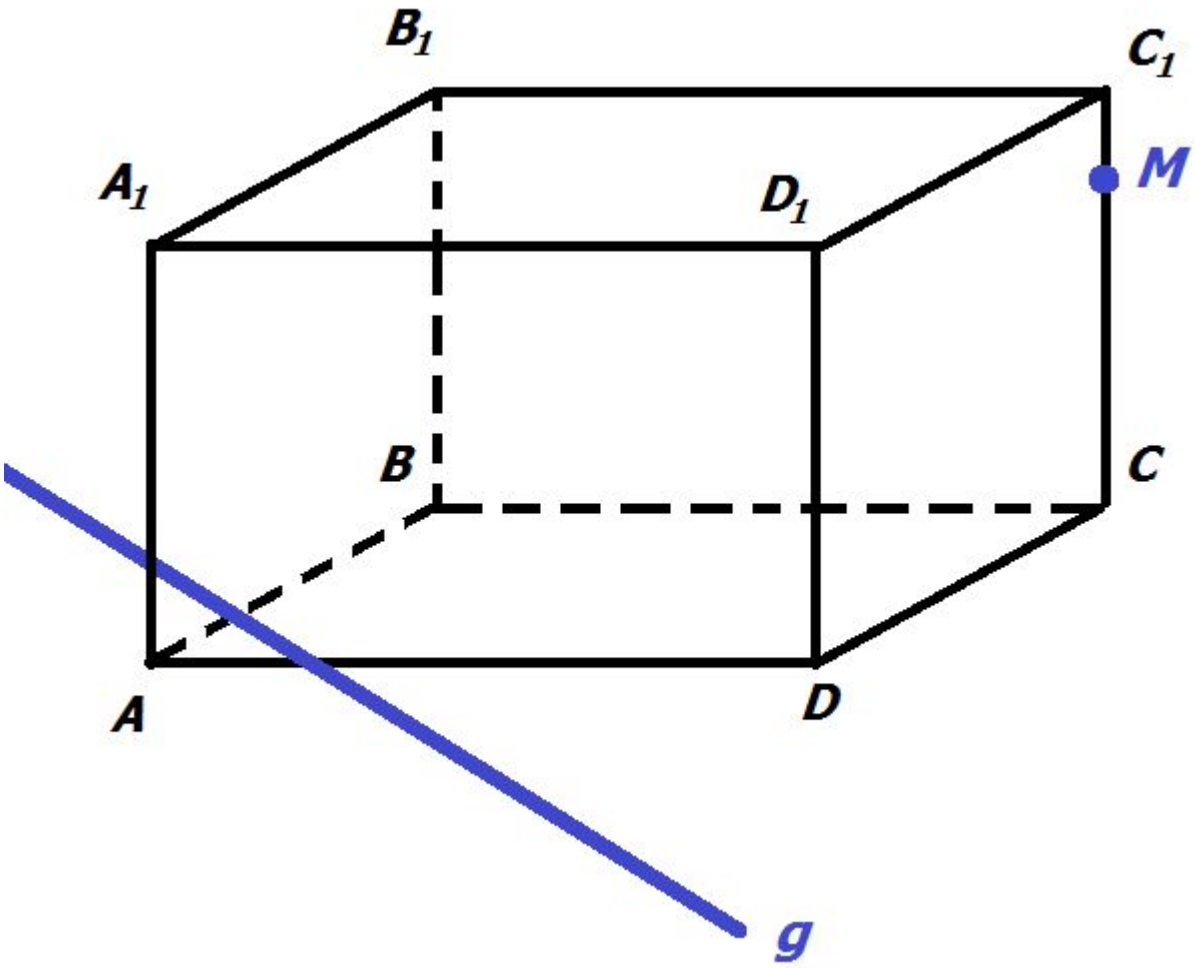
Задача 1. Дано: $M \in AA_1$, g



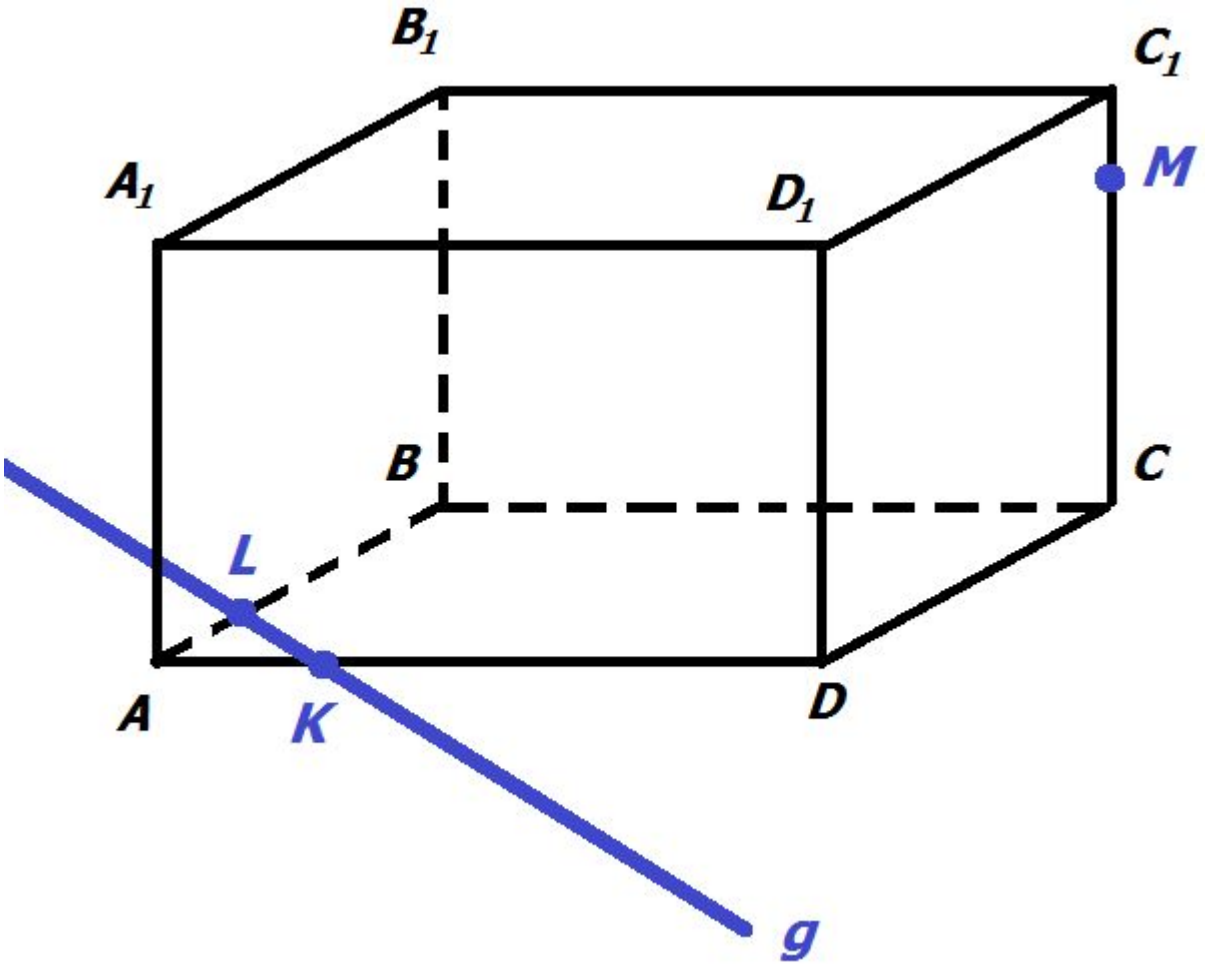
1. $G_1 = AD \cap g$
2. $K = MG_1 \cap DD_1$
3. $G_2 = CD \cap g$
4. $P = KG_2 \cap CC_1$
5. $G_3 = BC \cap g$
6. $T = PG_3 \cap BB_1$
7. MT

MKPT-искомое сечение

Задача 2. Дано: $M \in CC_1$, g



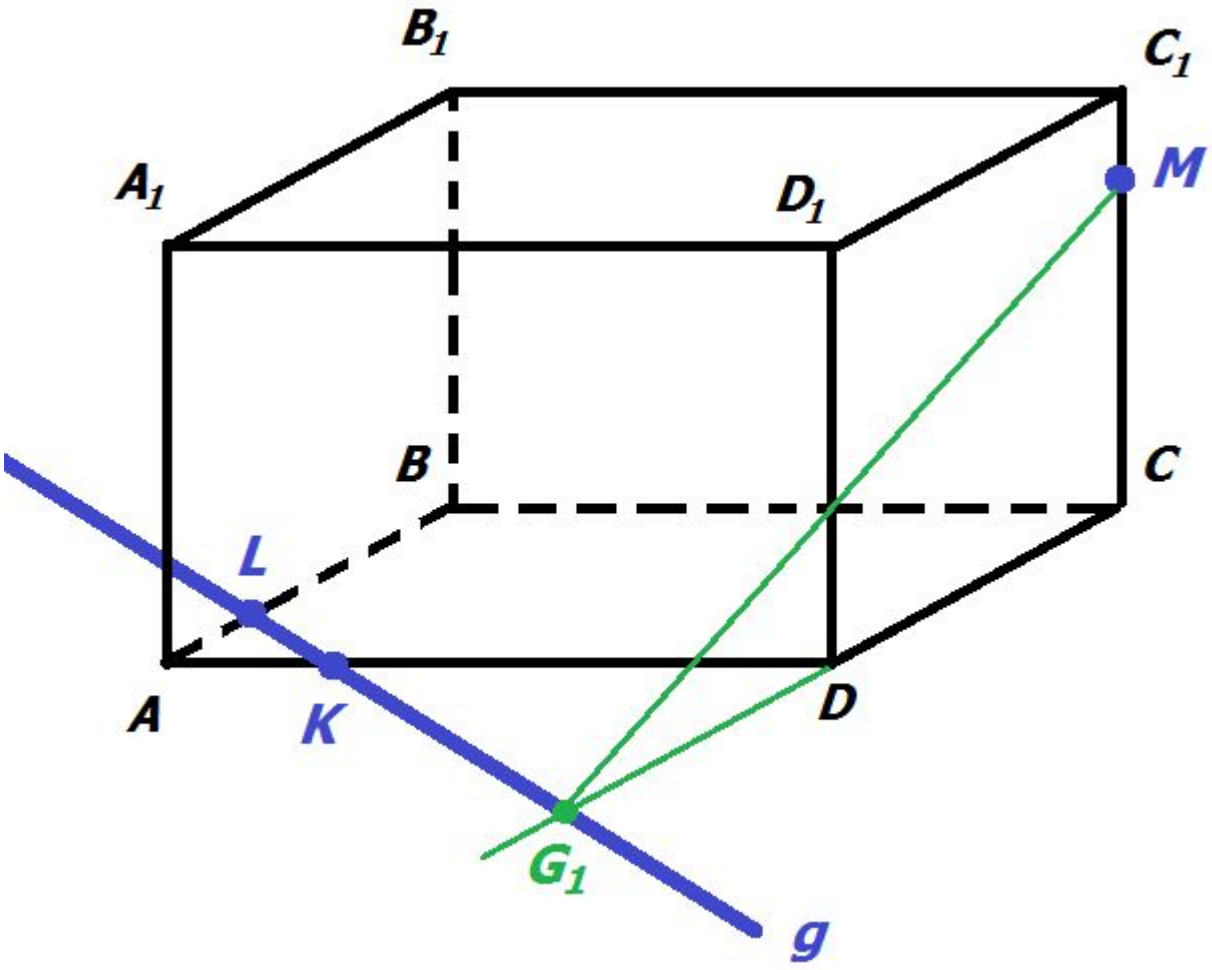
Задача 2. Дано: $M \in CC_1$, g



1.K=AD∩g

2.L=AB∩g

Задача 2. Дано: $M \in CC_1$, g

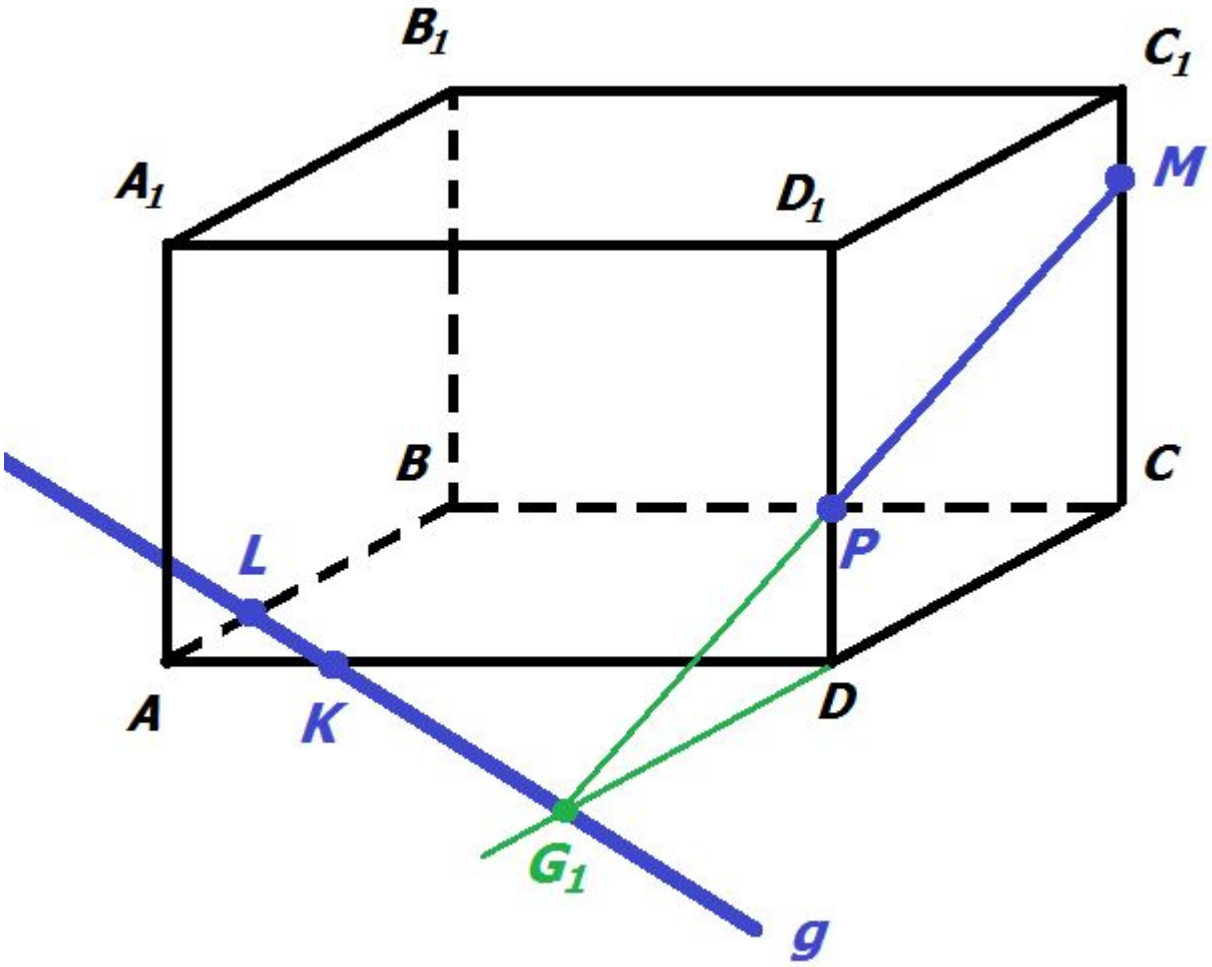


1.K=AD∩g

2.L=AB∩g

3.G_1=CD∩g

Задача 2. Дано: $M \in CC_1$, g



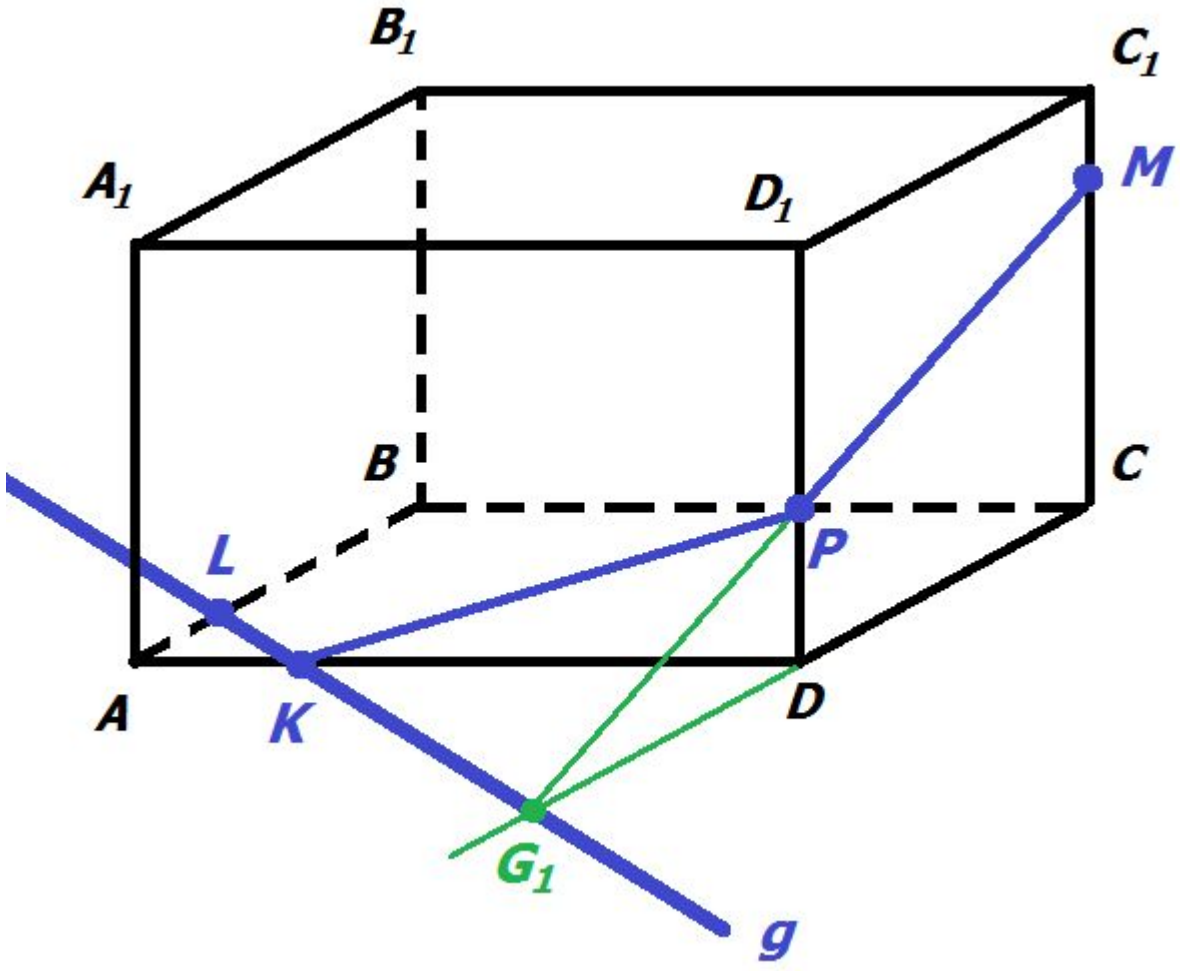
1.K=AD∩g

2.L=AB∩g

3.G_1=CD∩g

4.P=MG_1∩DD_1

Задача 2. Дано: $M \in CC_1$, g



1.K=AD∩g

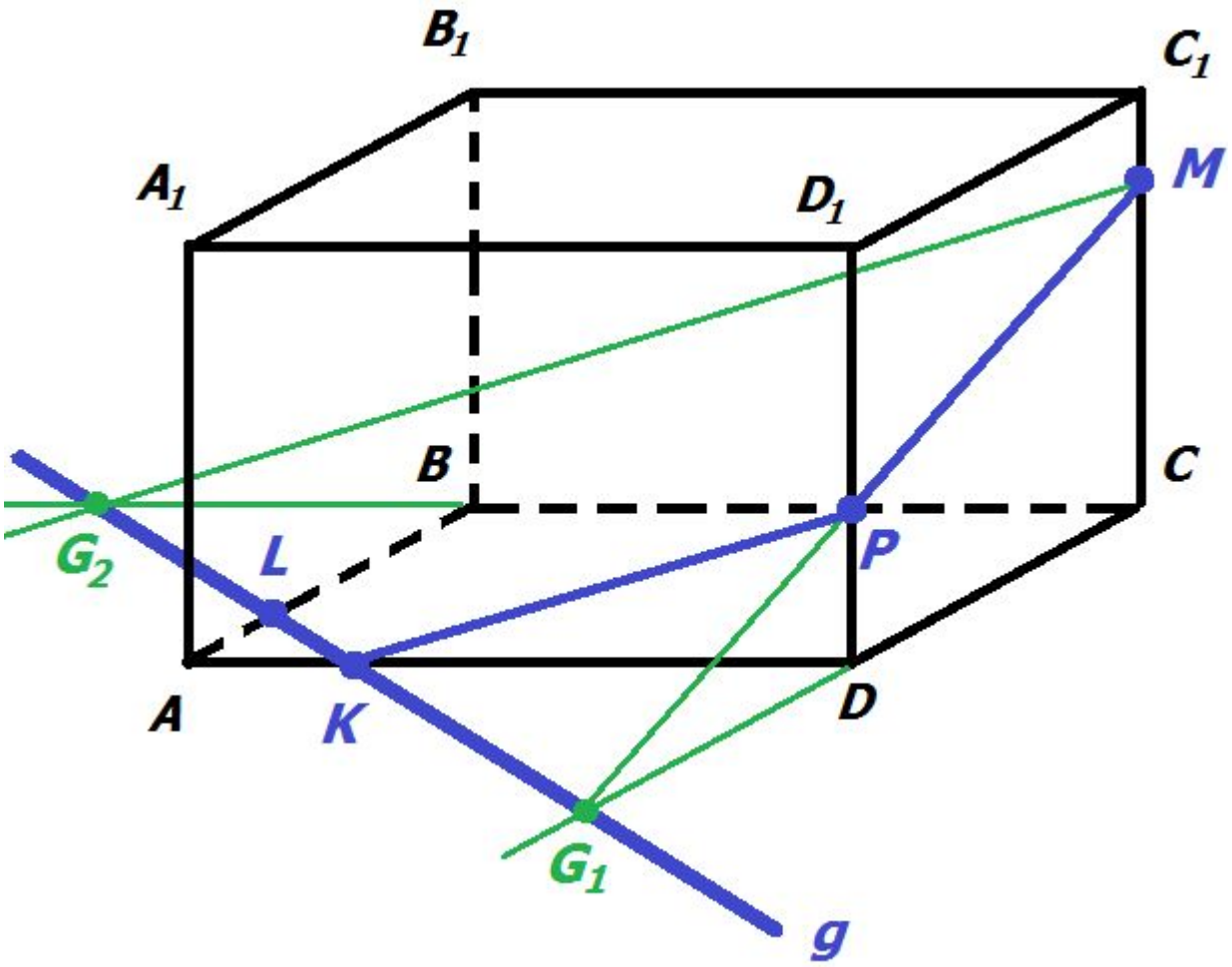
2.L=AB∩g

3.G_1=CD∩g

4.P=MG_1∩DD_1

5. KP

Задача 2. Дано: $M \in CC_1$, g



1.K=AD∩g

2.L=AB∩g

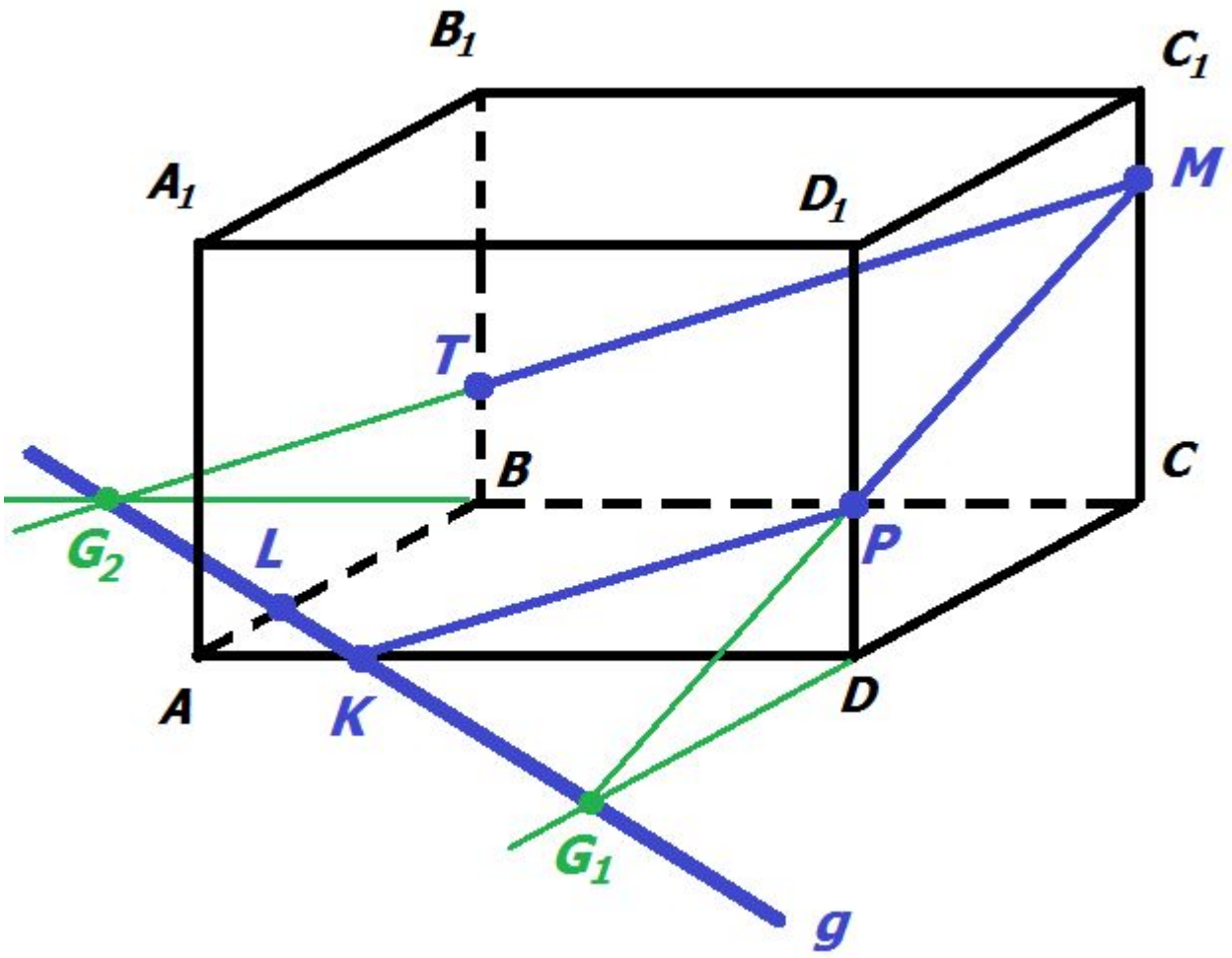
3.G_1=CD∩g

4.P=MG_1∩DD_1

5. KP

6.G_2=BC∩g

Задача 2. Дано: $M \in CC_1$, g



1.K=AD∩g

2.L=AB∩g

3.G_1=CD∩g

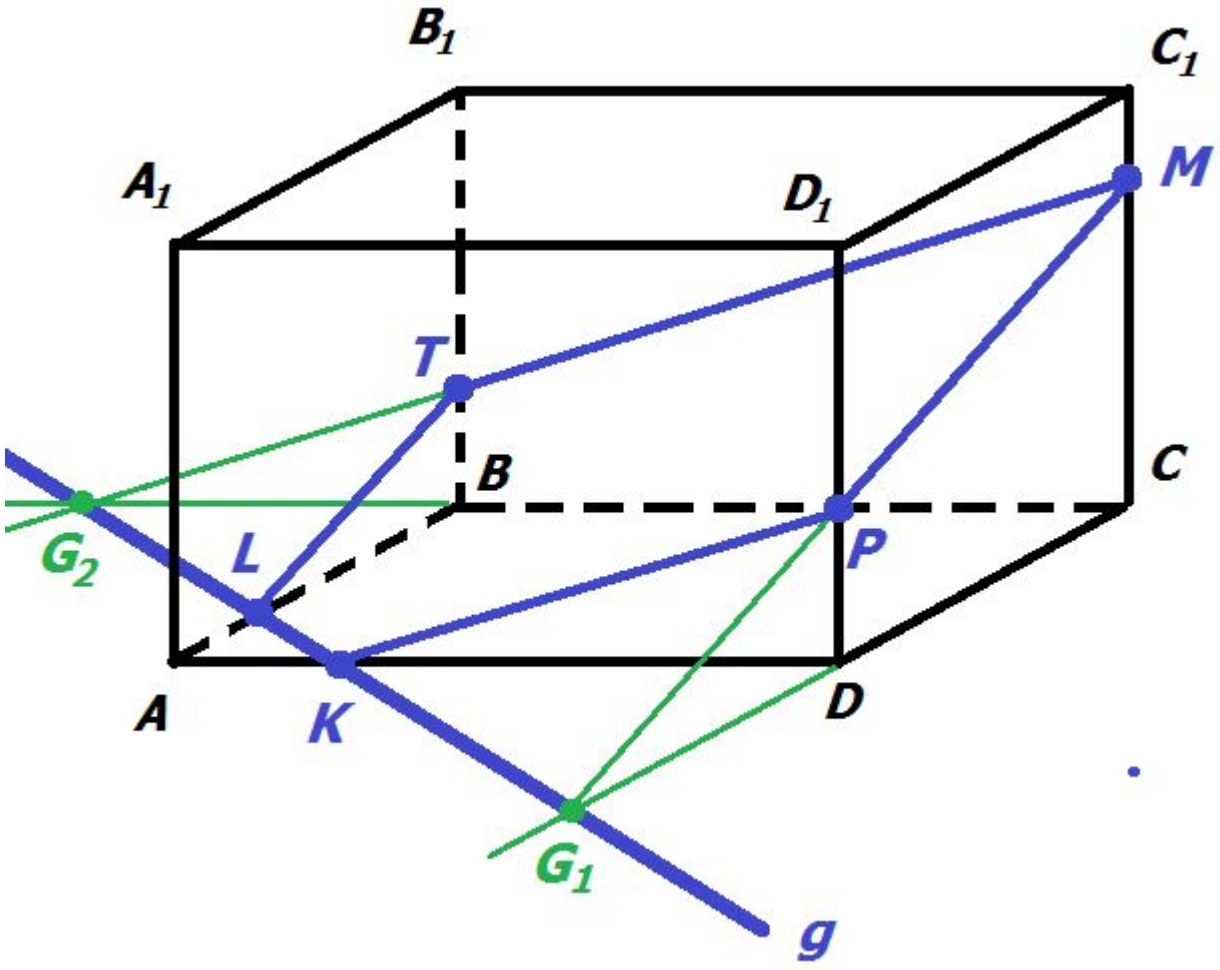
4.P=MG_1∩DD_1

5. KP

6.G_2=BC∩g

7.T=MG_2∩BB_1

Задача 2. Дано: $M \in CC_1$, g



1.K=AD∩g

2.L=AB∩g

3.G_1=CD∩g

4.P=MG_1∩DD_1

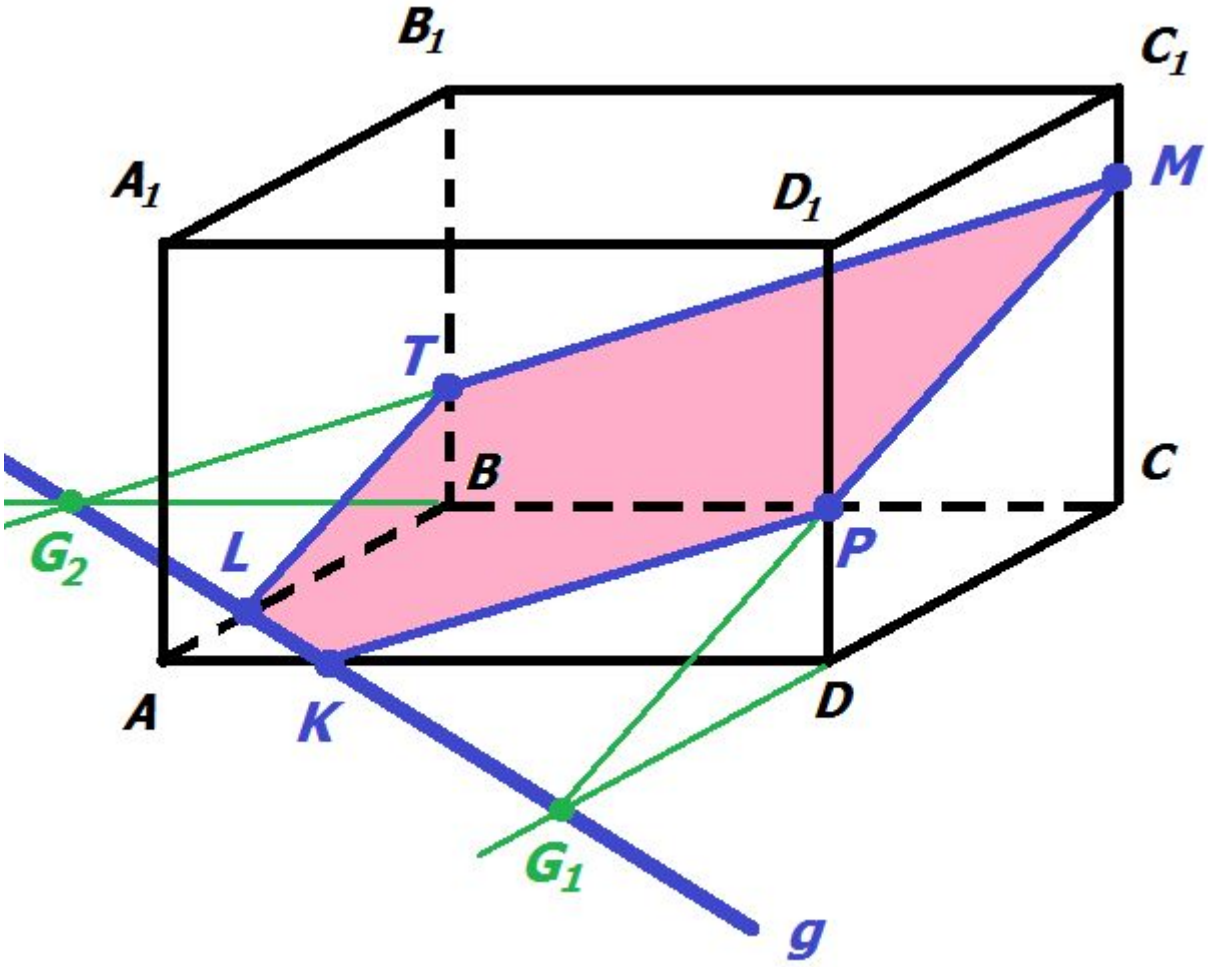
5. KP

6.G_2=BC∩g

7.T=MG_2∩BB_1

8. LT

Задача 2. Дано: $M \in CC_1$, g



1.K=AD∩g

2.L=AB∩g

3.G_1=CD∩g

4.P=MG_1∩DD_1

5. KP

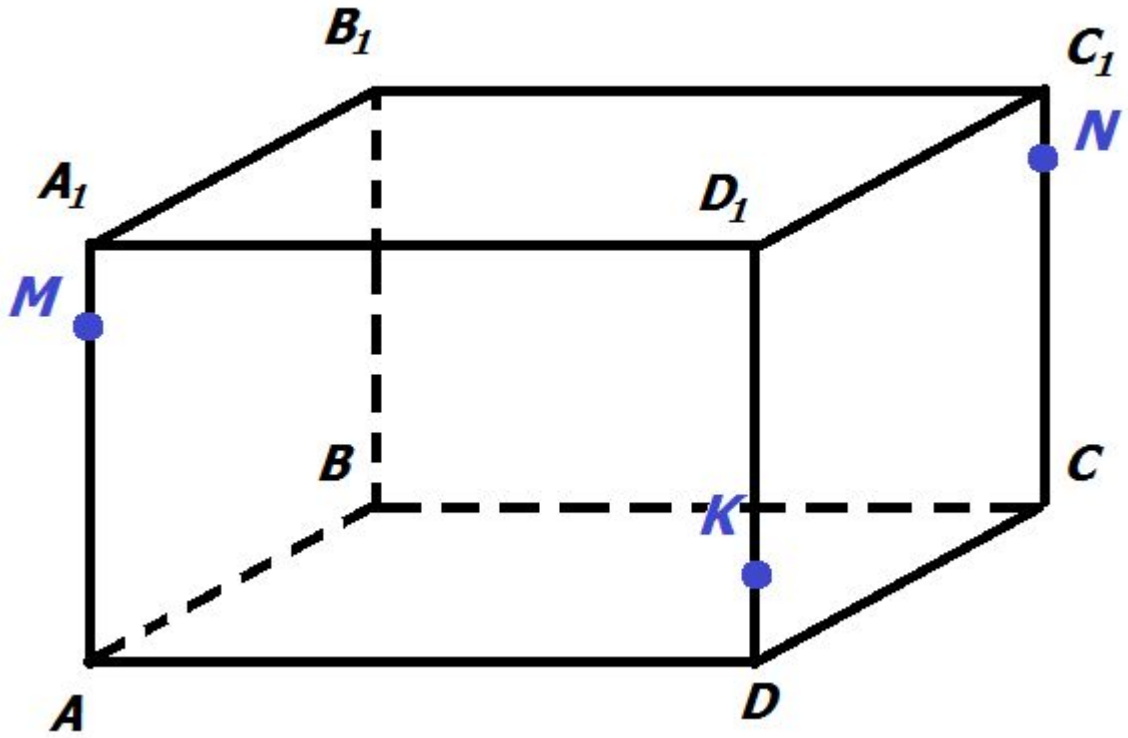
6.G_2=BC∩g

7.T=MG_2∩BB_1

8. LT

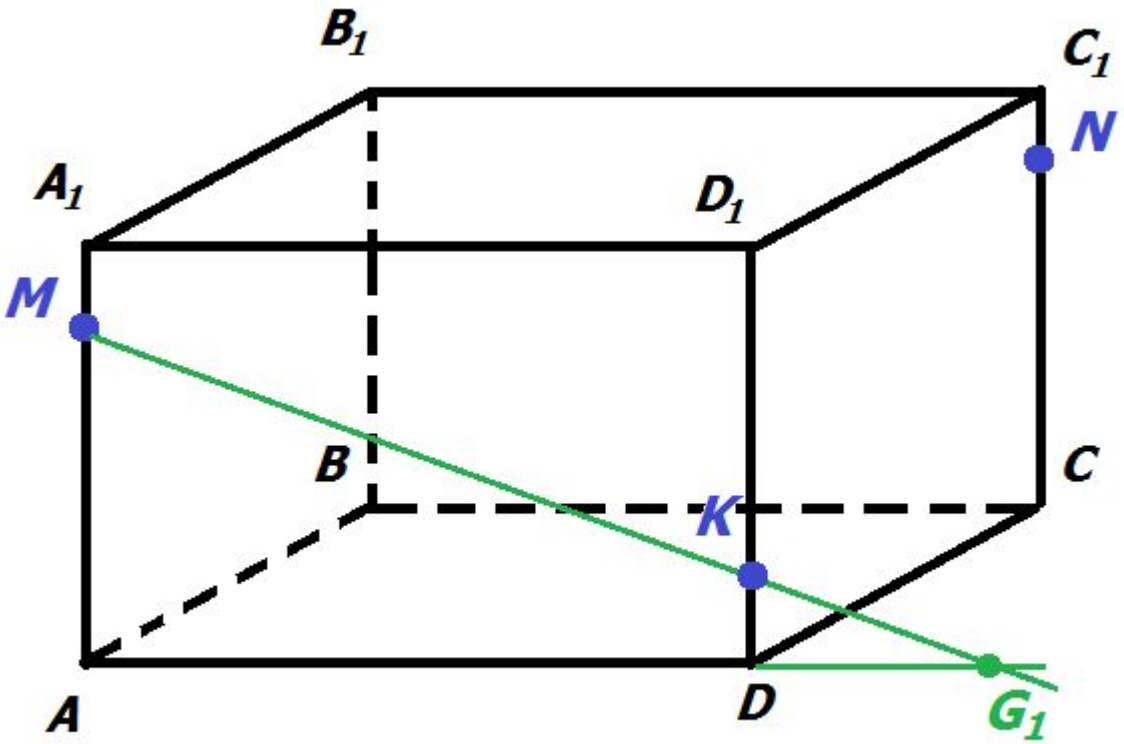
MPKLT-искомое сечение

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

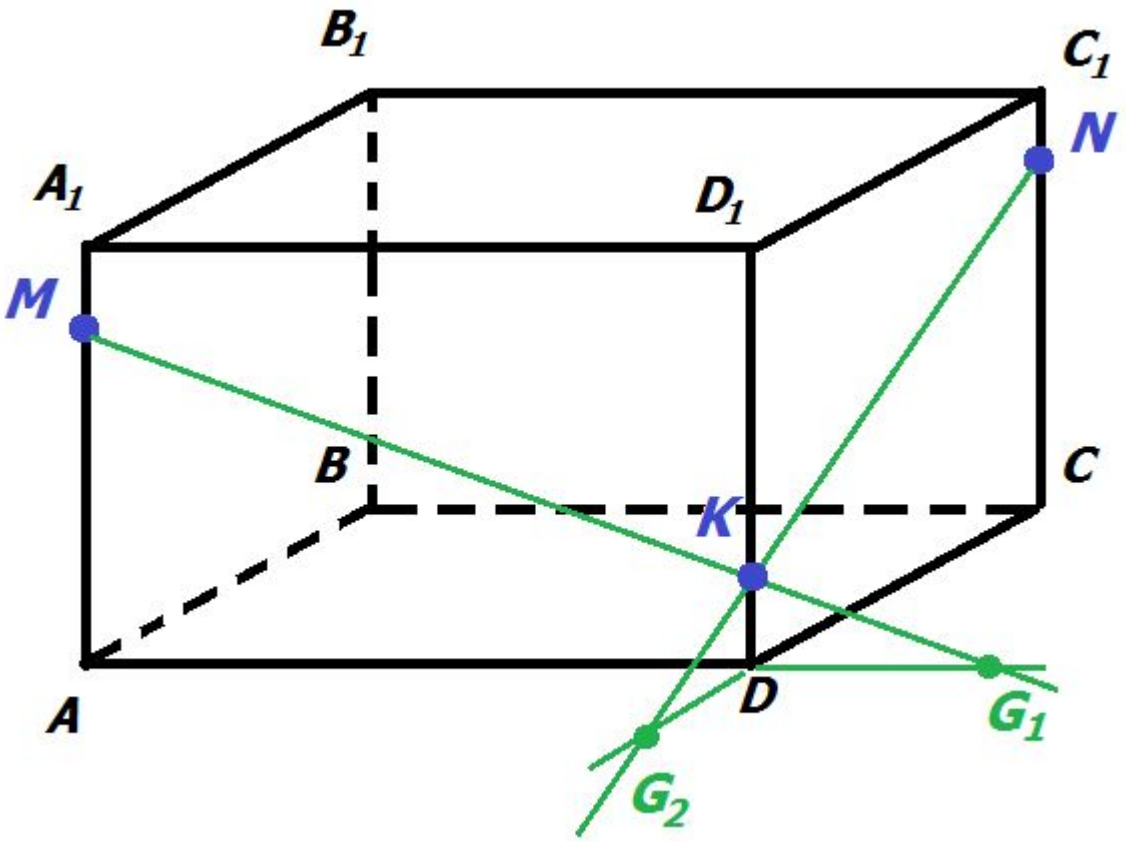


Задача 3. $M \in AA_1, N \in CC_1, K \in DD_1$

1. $G_1 = AD \cap MK$

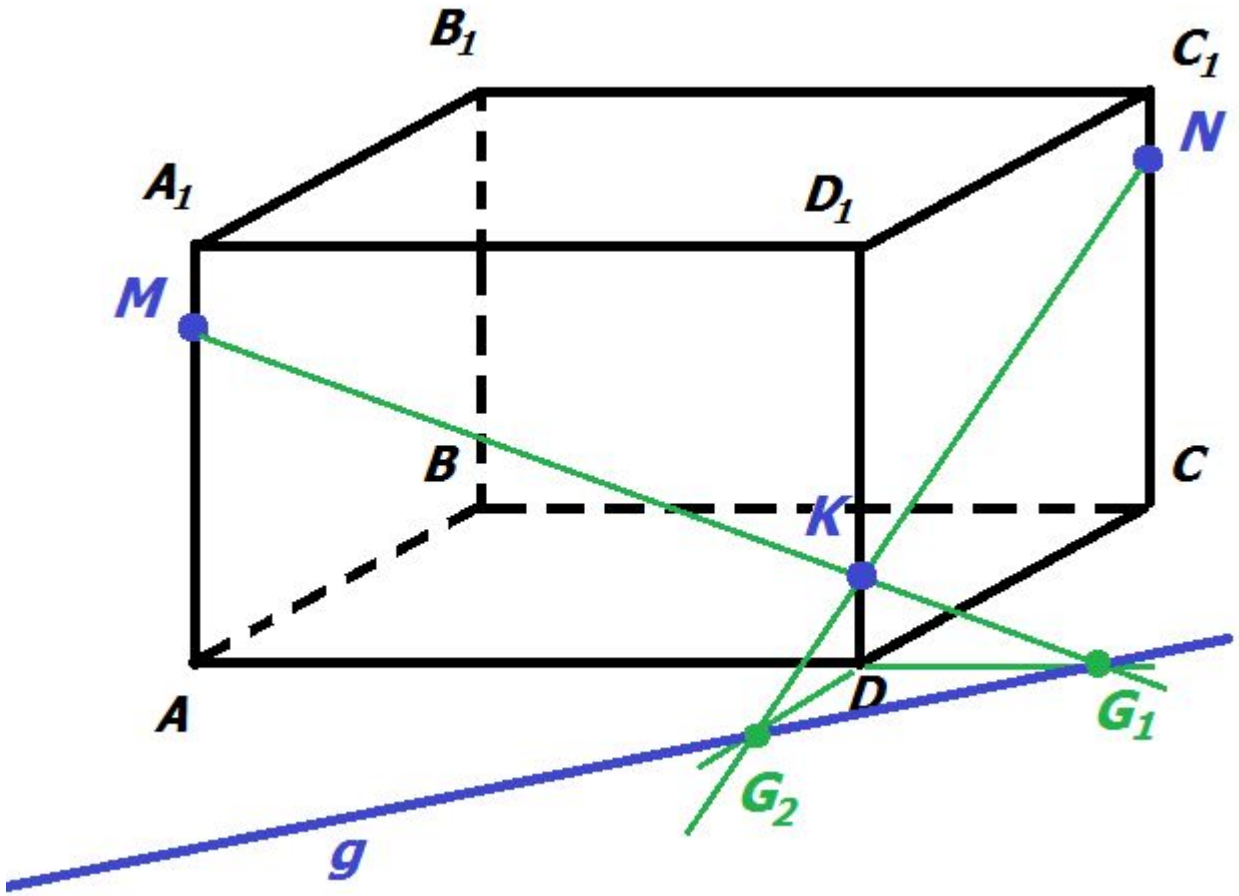


Задача 3. $M \in AA_1, N \in CC_1, K \in DD_1$



1. $G_1 = AD \cap MK$
2. $G_2 = CD \cap KN$

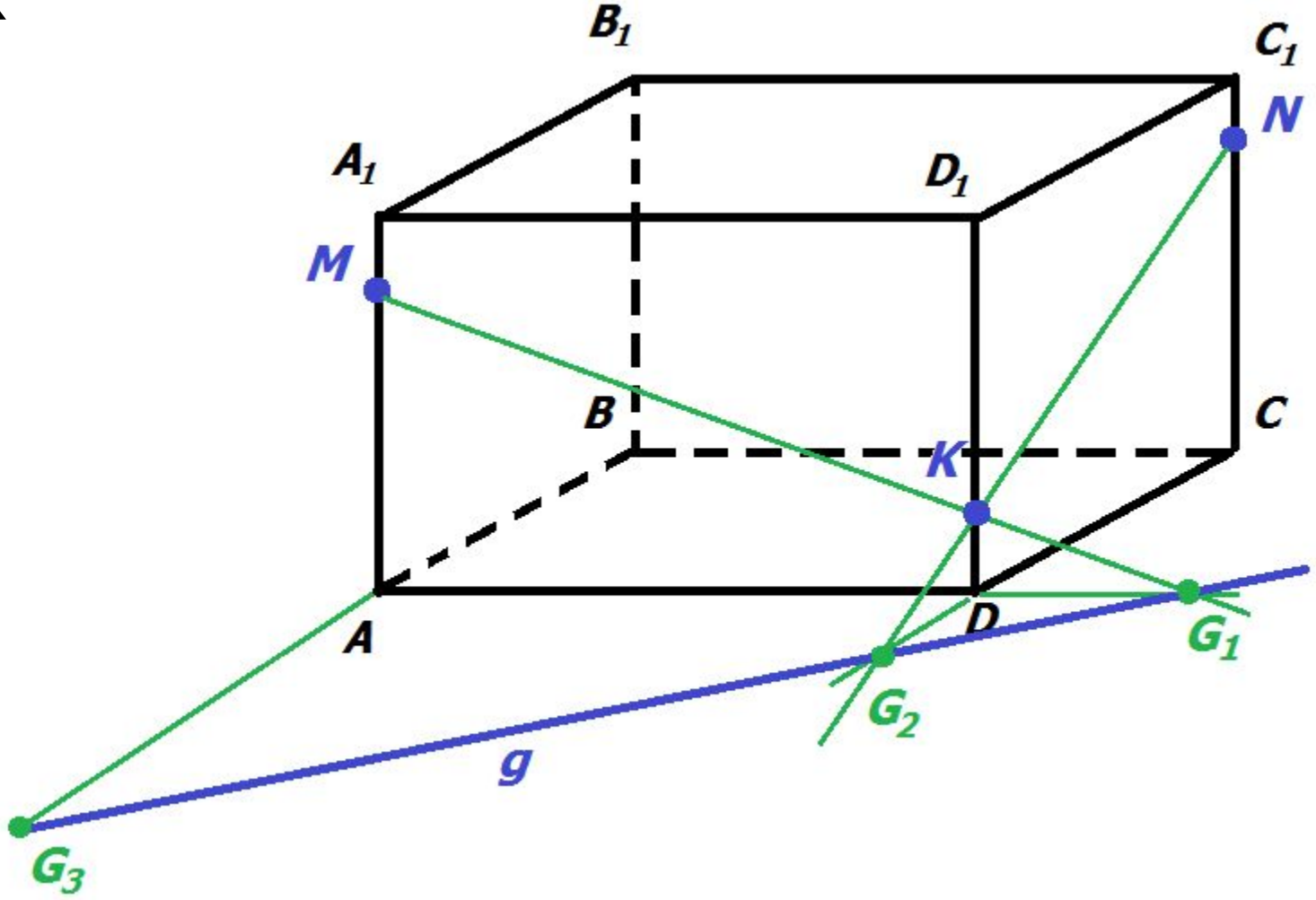
Задача 3. $M \in AA_1, N \in CC_1, K \in DD_1$



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

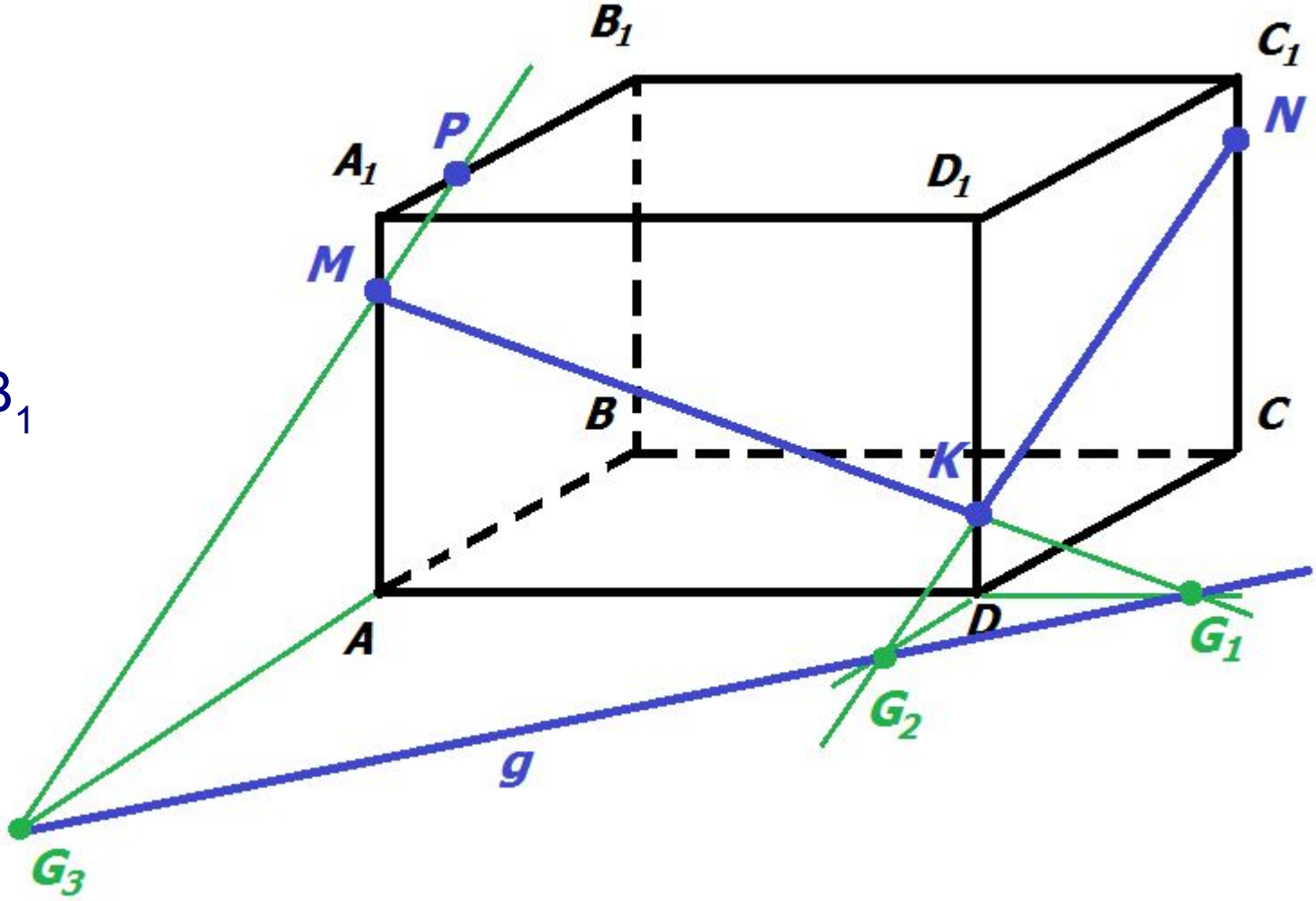
Задача 3. $M \in AA_1, N \in CC_1, K \in DD_1$

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



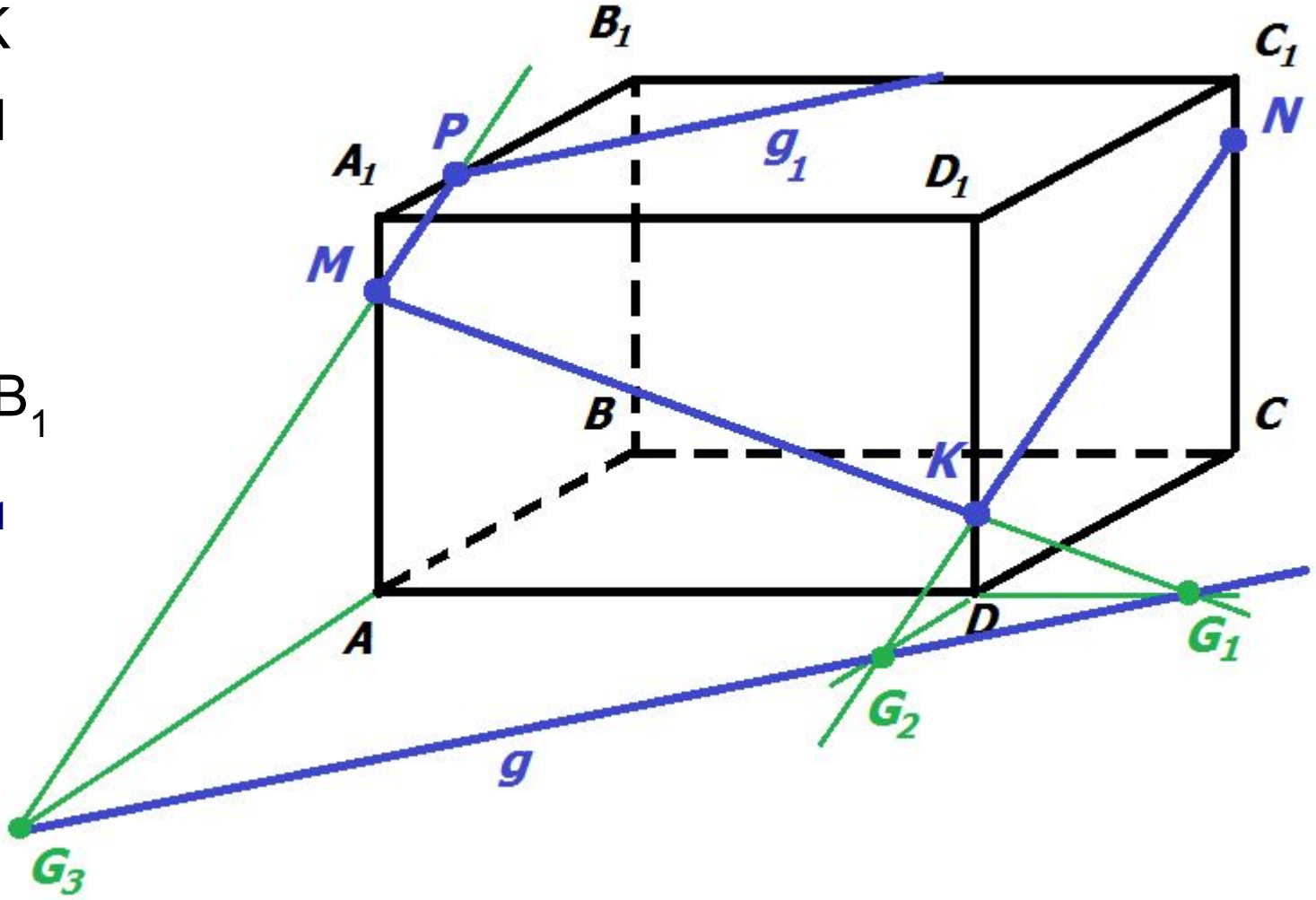
Задача 3. $M \in AA_1, N \in CC_1, K \in DD_1$

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



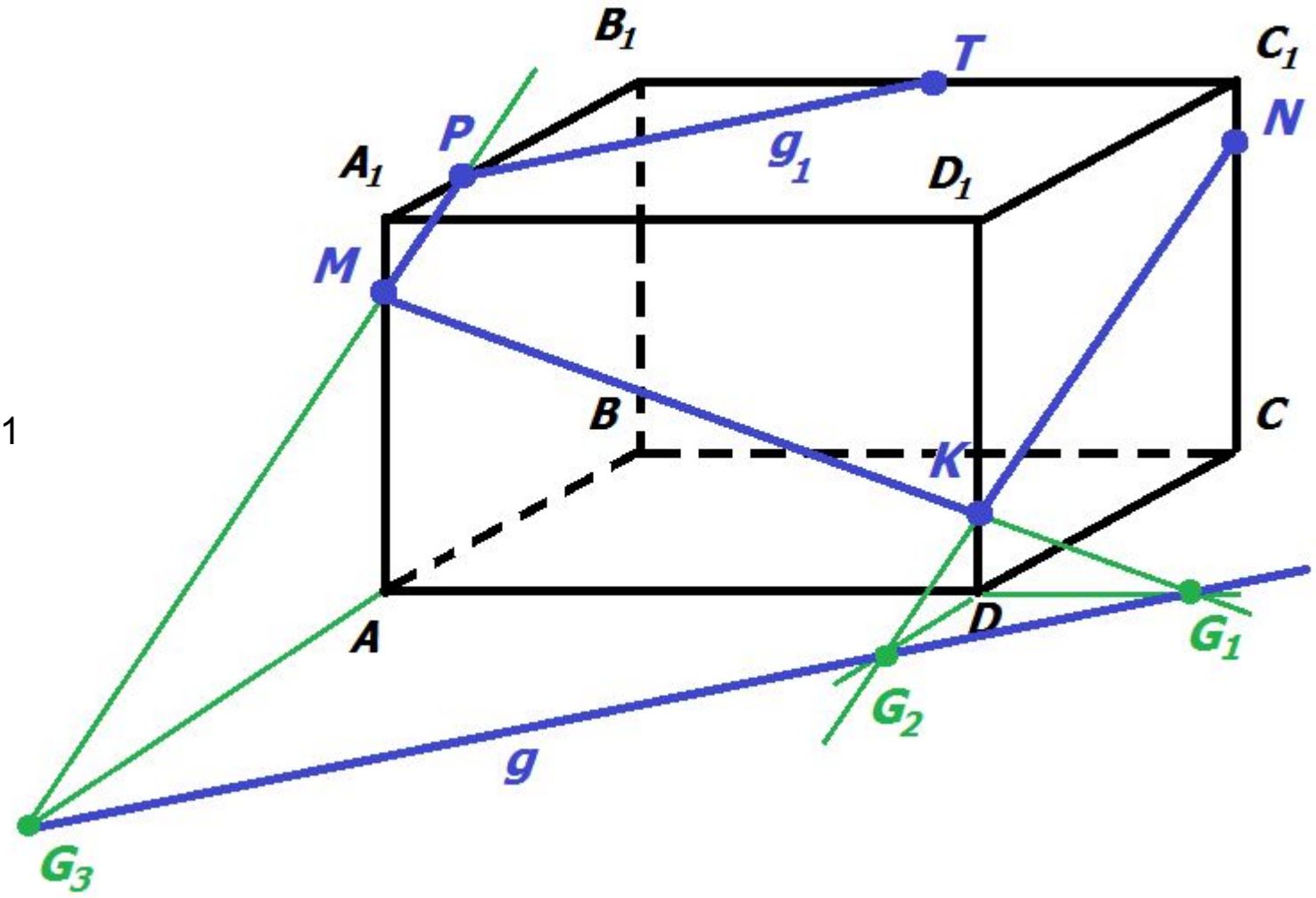
Задача 3. $M \in AA_1, N \in CC_1, K \in DD_1$

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. $g_1 \parallel g$, $P \in g_1$



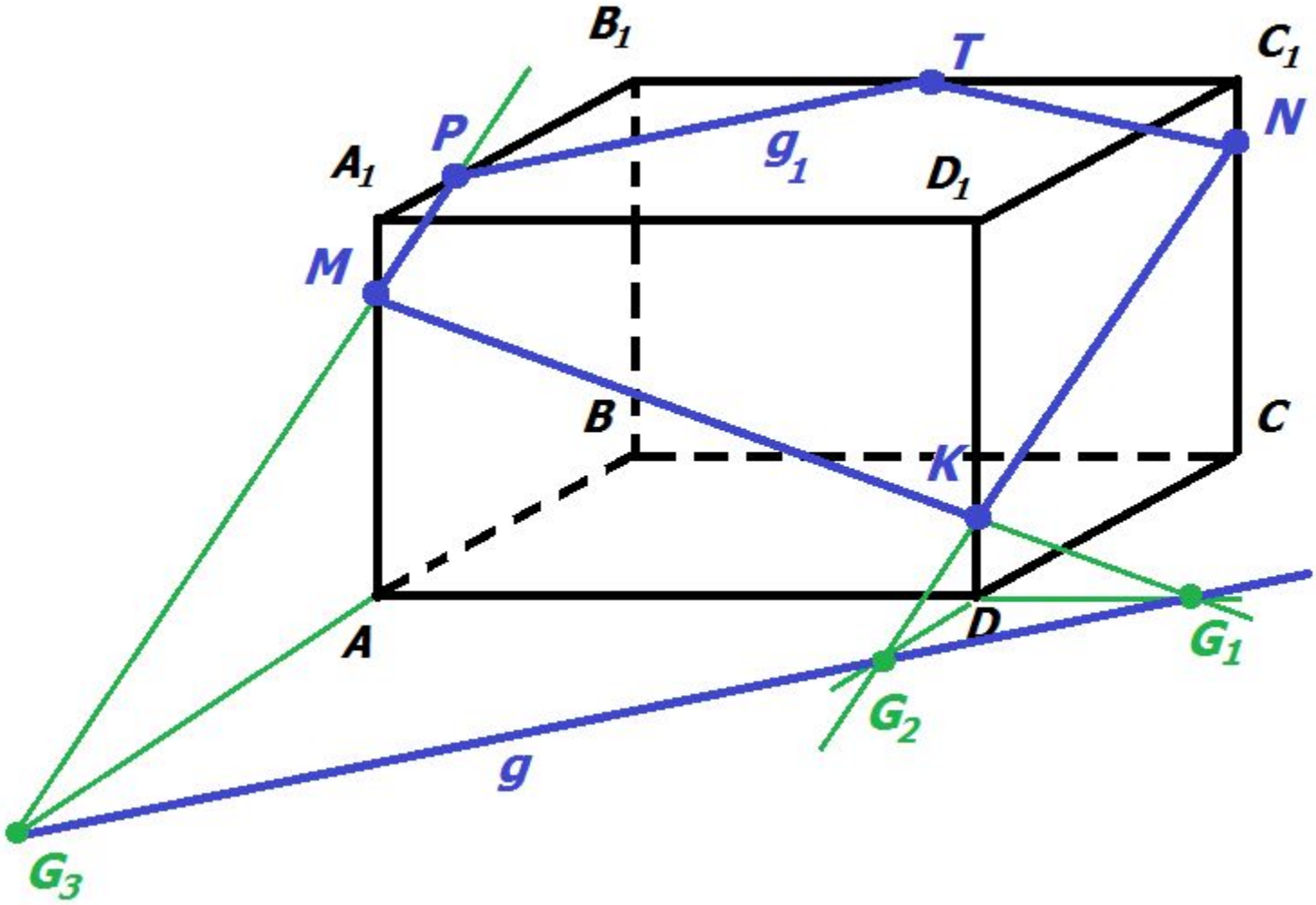
Задача 3. $M \in AA_1, N \in CC_1, K \in DD_1$

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. $T = g_1 \cap B_1C_1$



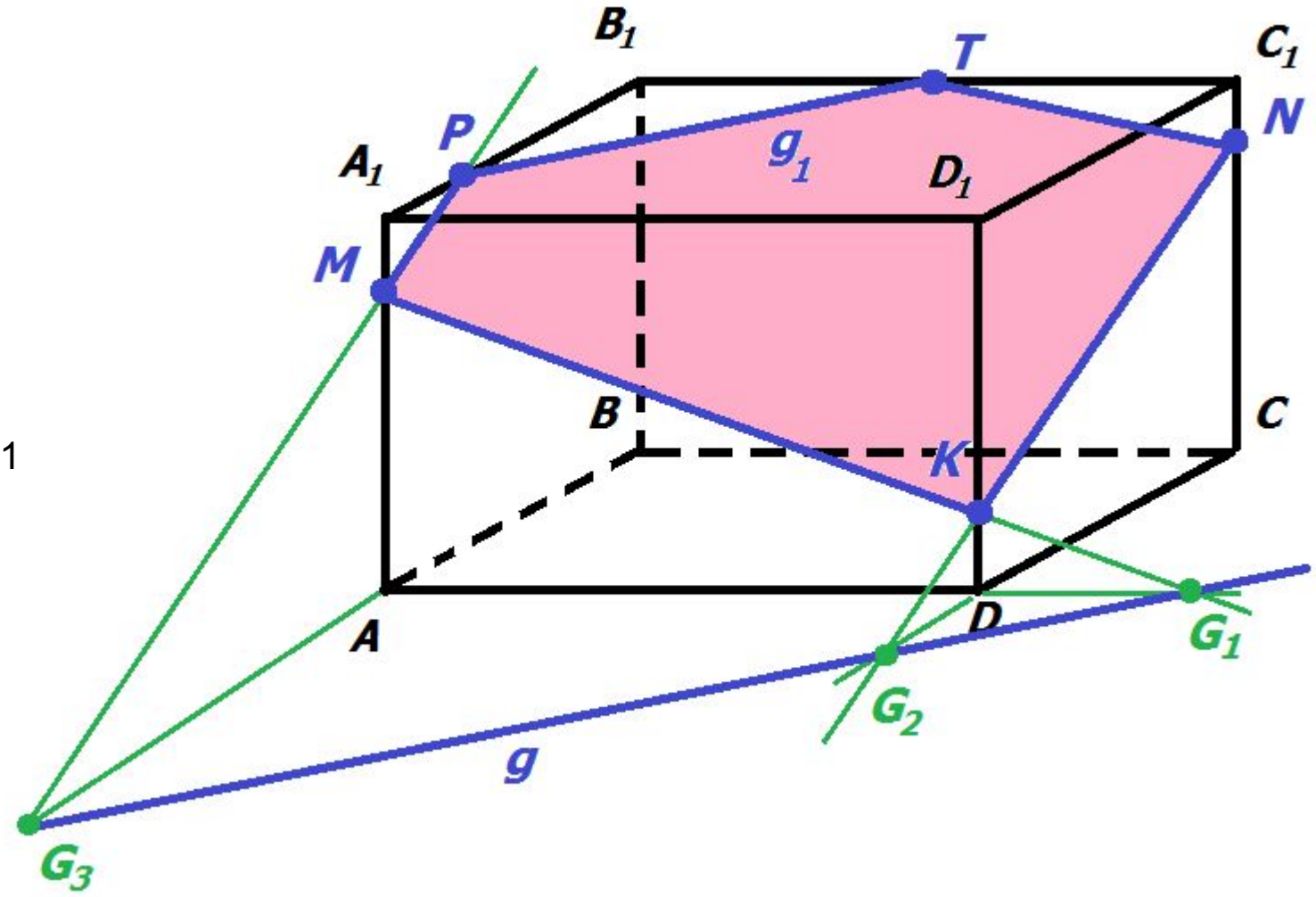
Задача 3. $M \in AA_1, N \in CC_1, K \in DD_1$

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



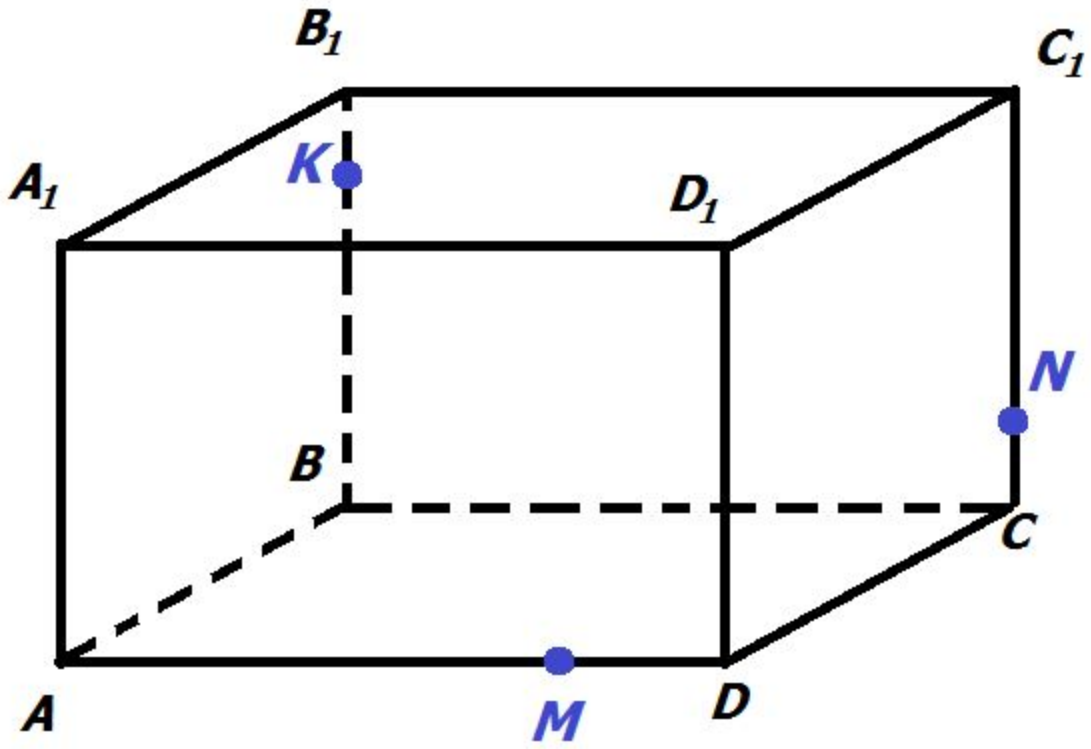
Задача 3. $M \in AA_1, N \in CC_1, K \in DD_1$

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

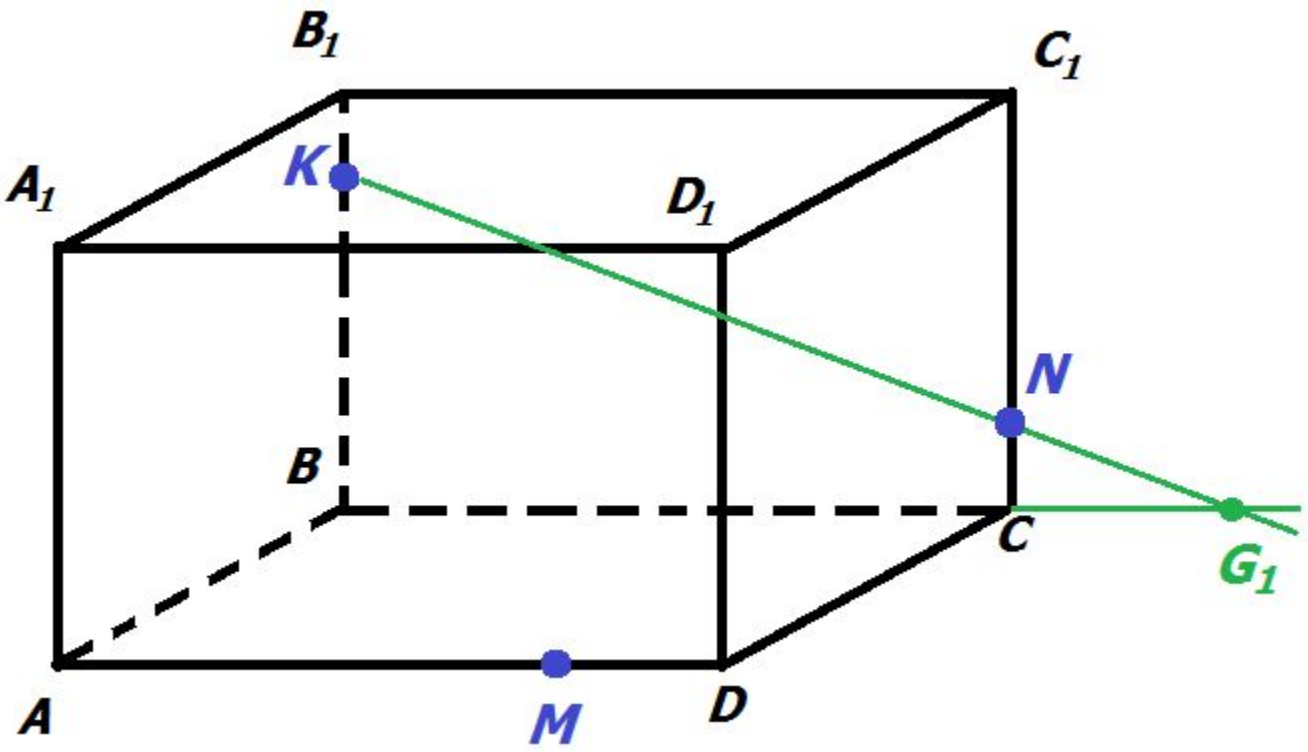


MKNTP-искомое сечение

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

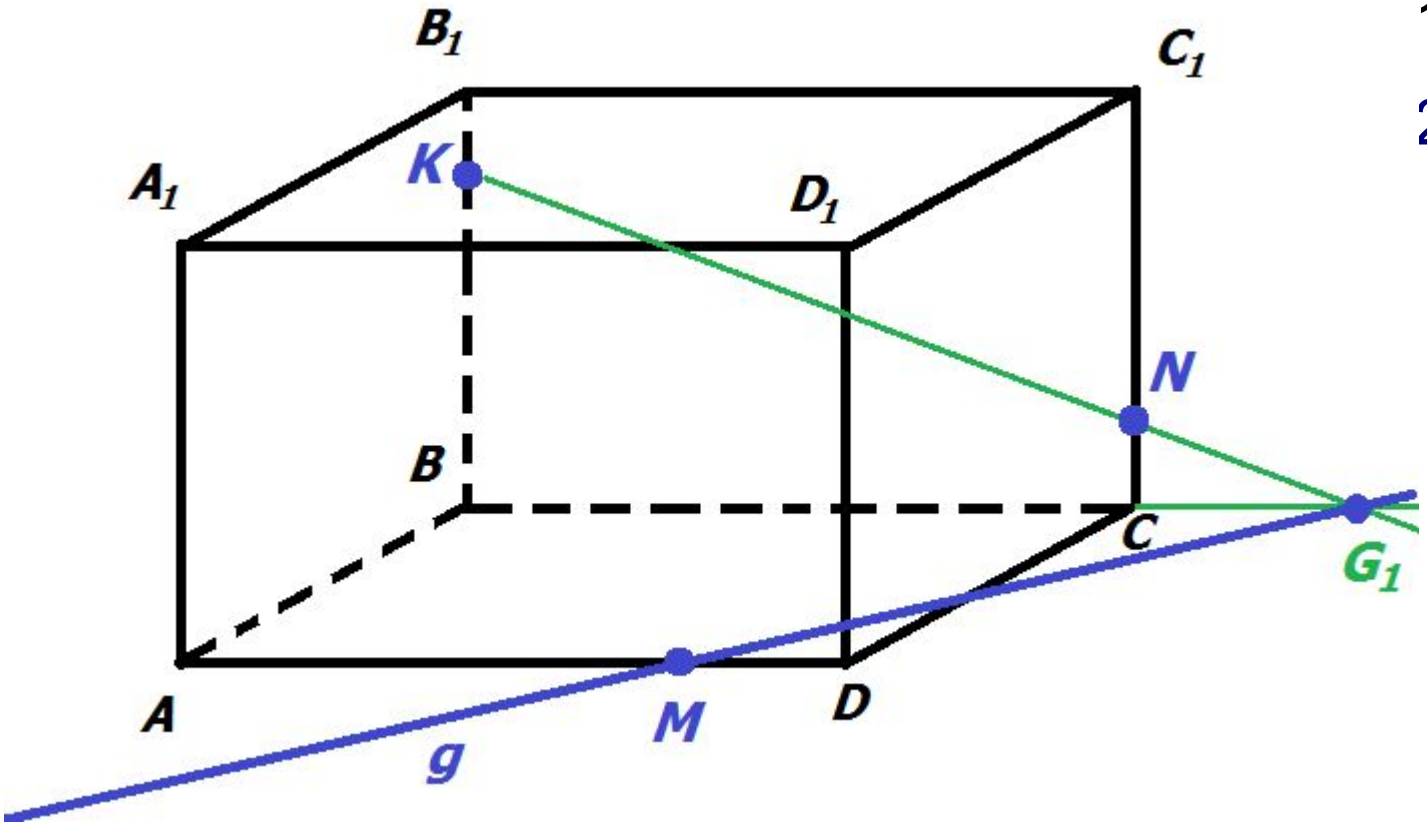


Задача 4. $M \in AD, N \in CC_1, K \in BB_1$



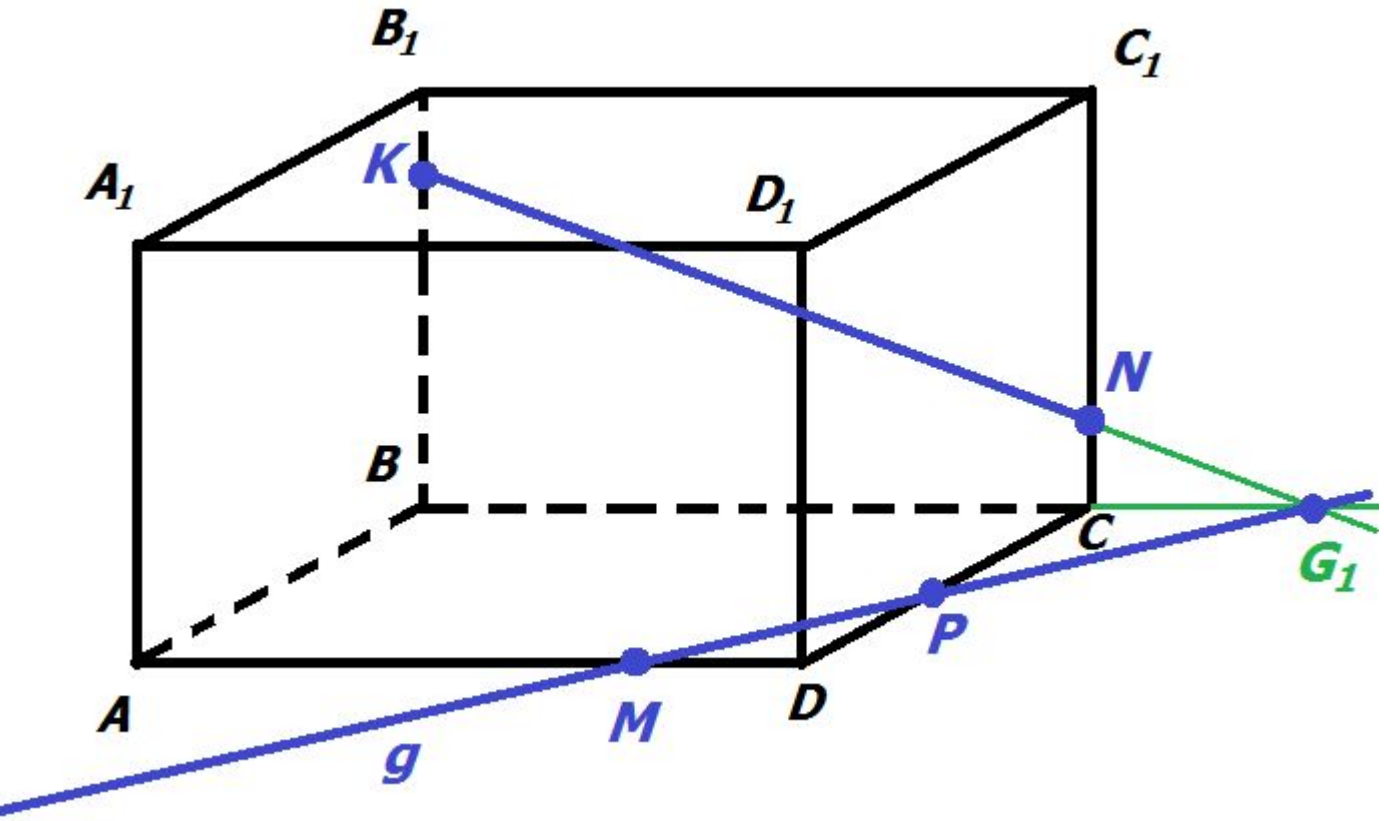
1. $G_1 = BC \cap KN$

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



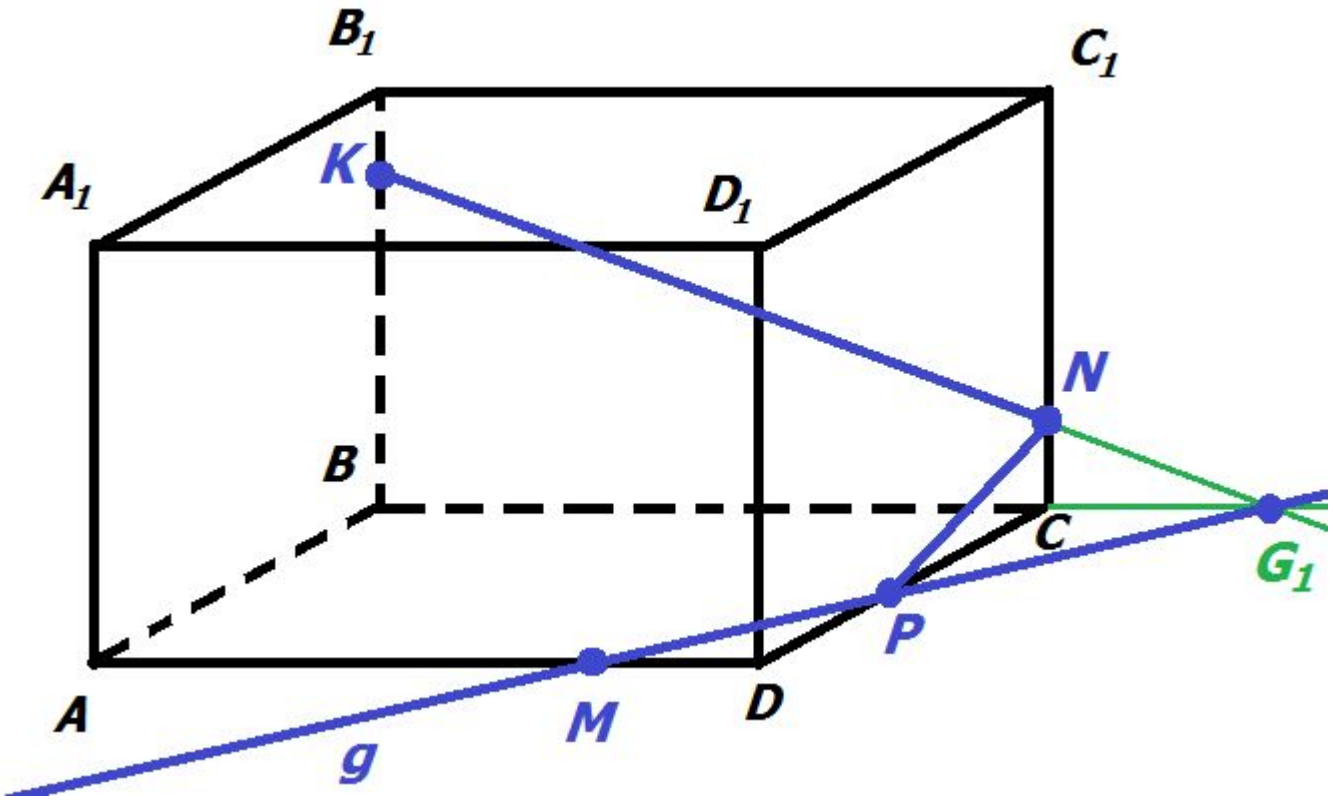
1. $G_1 = BC \cap KN$
2. $g = MG_1$

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



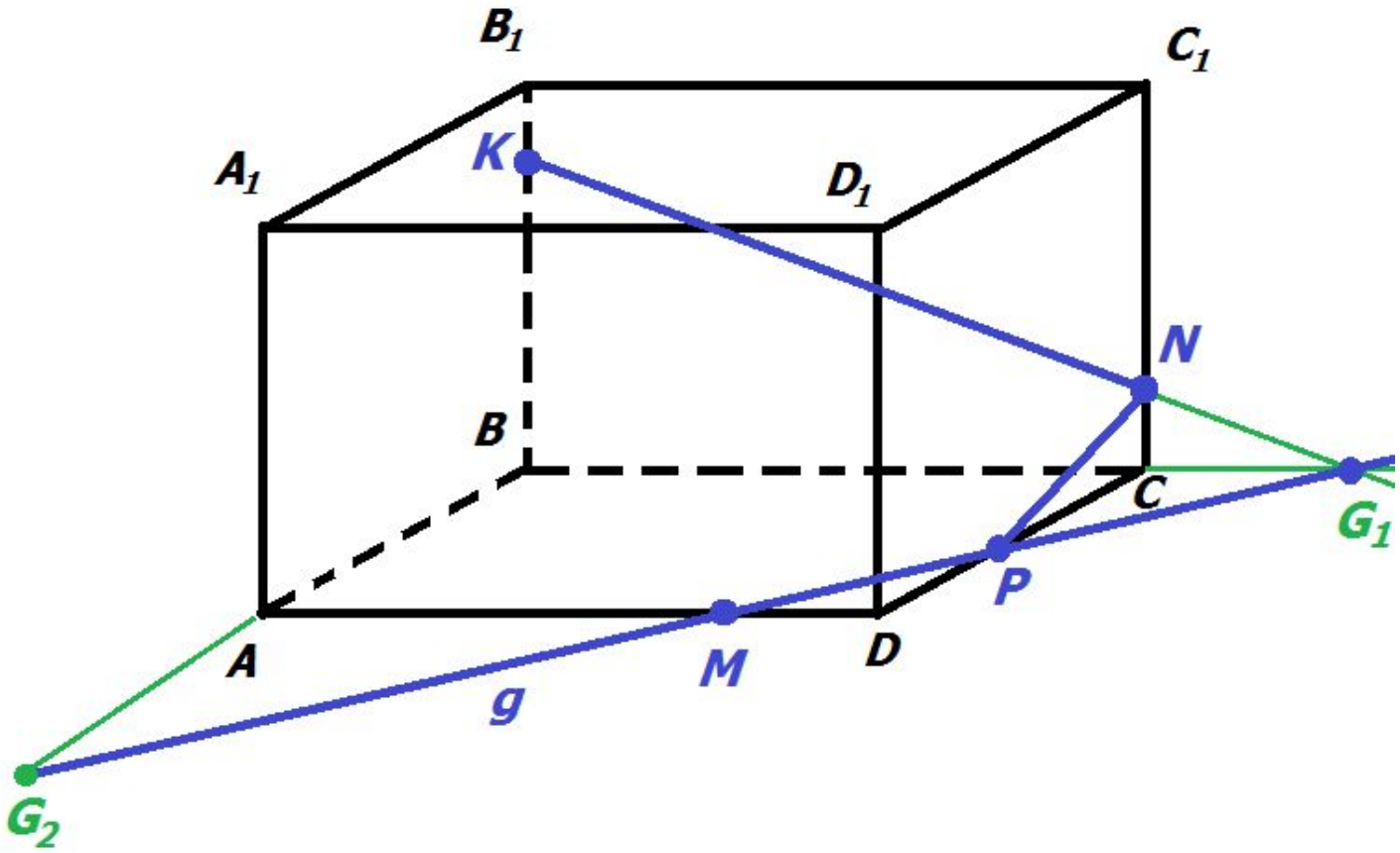
1. $G_1 = BC \cap KN$
2. $g = MG_1$
3. $P = g \cap CD$

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



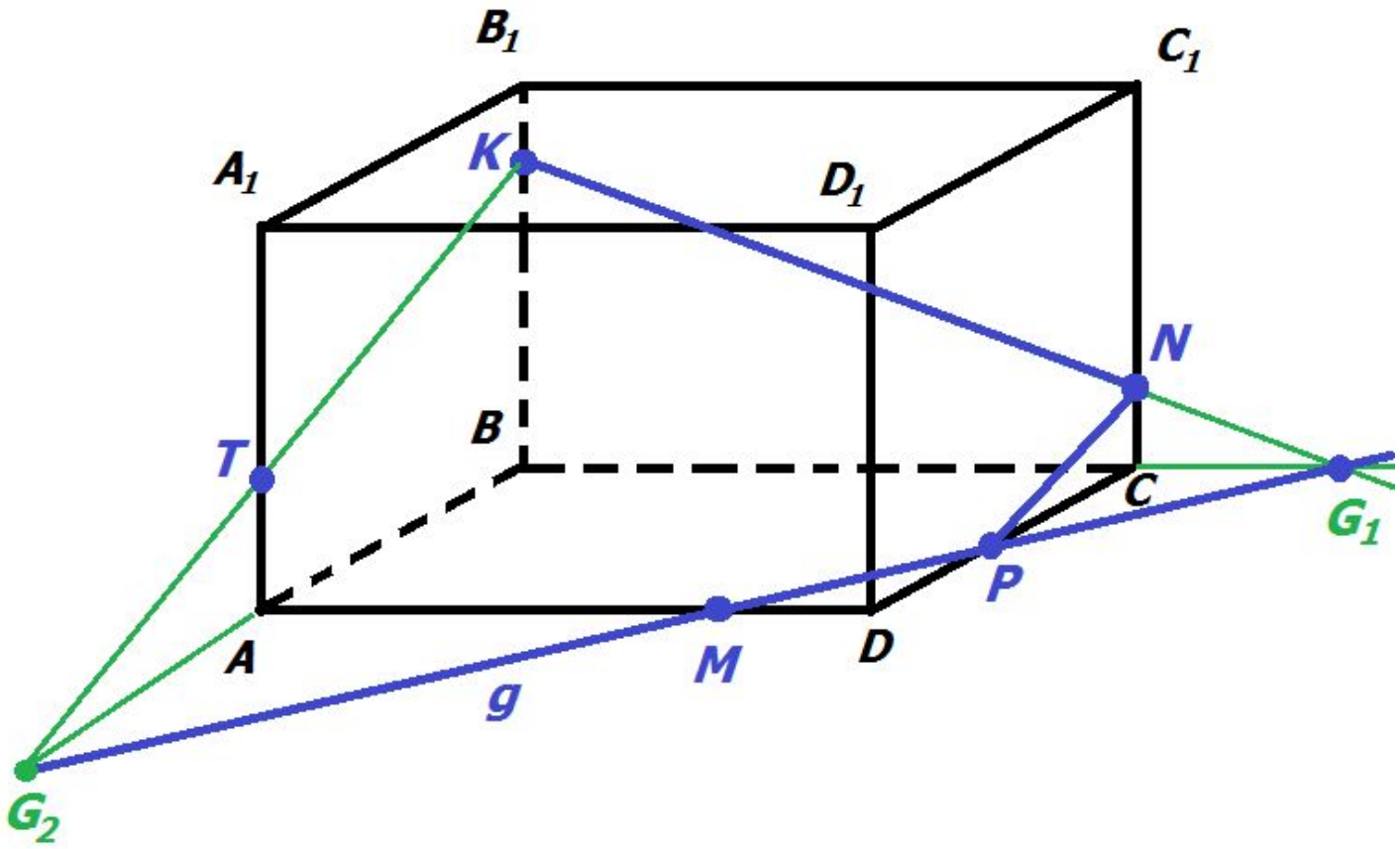
1. $G_1 = BC \cap KN$
2. $g = MG_1$
3. $P = g \cap CD$
4. PN

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



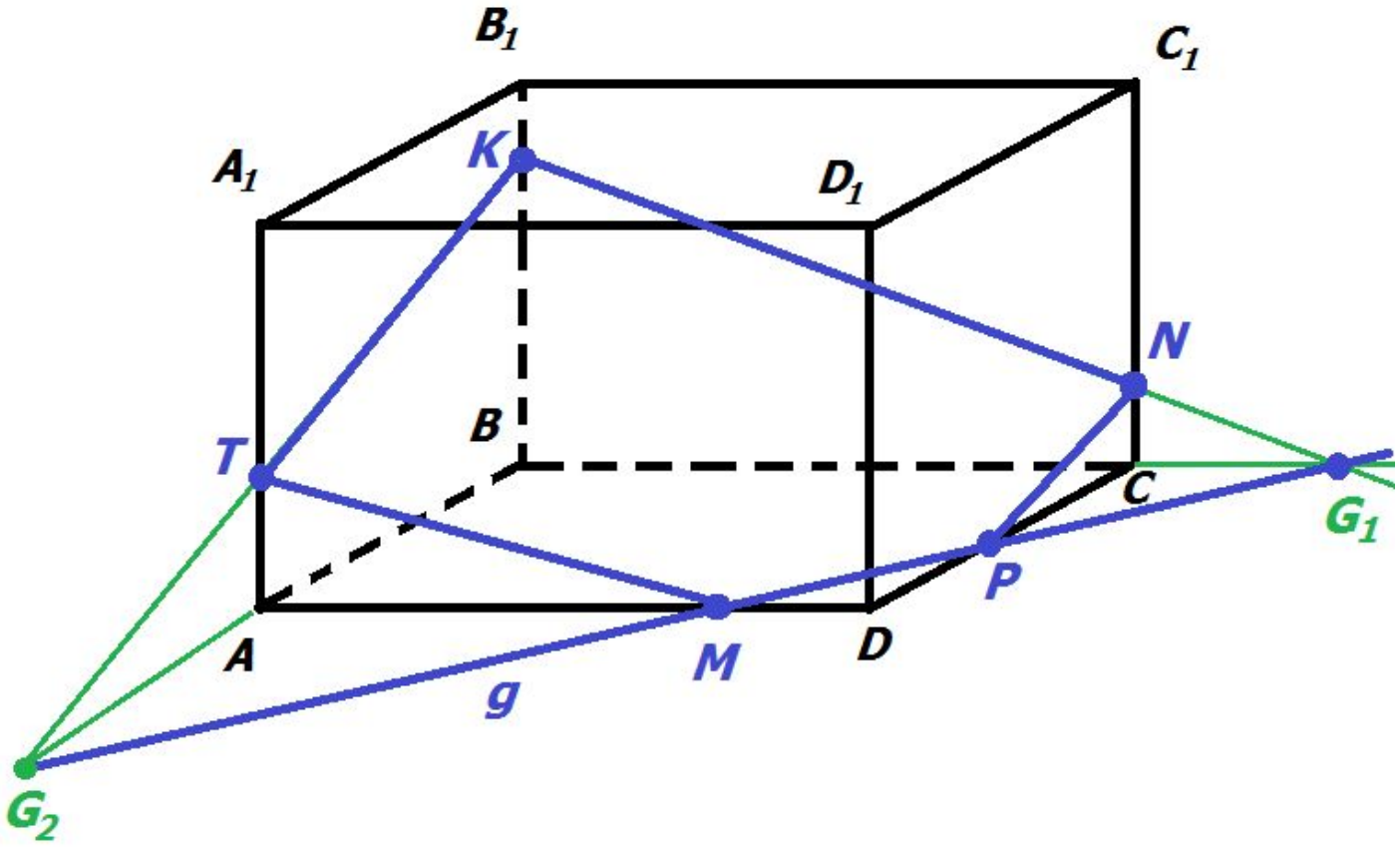
1. $G_1 = BC \cap KN$
2. $g = MG_1$
3. $P = g \cap CD$
4. PN
5. $G_2 = AB \cap g$

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



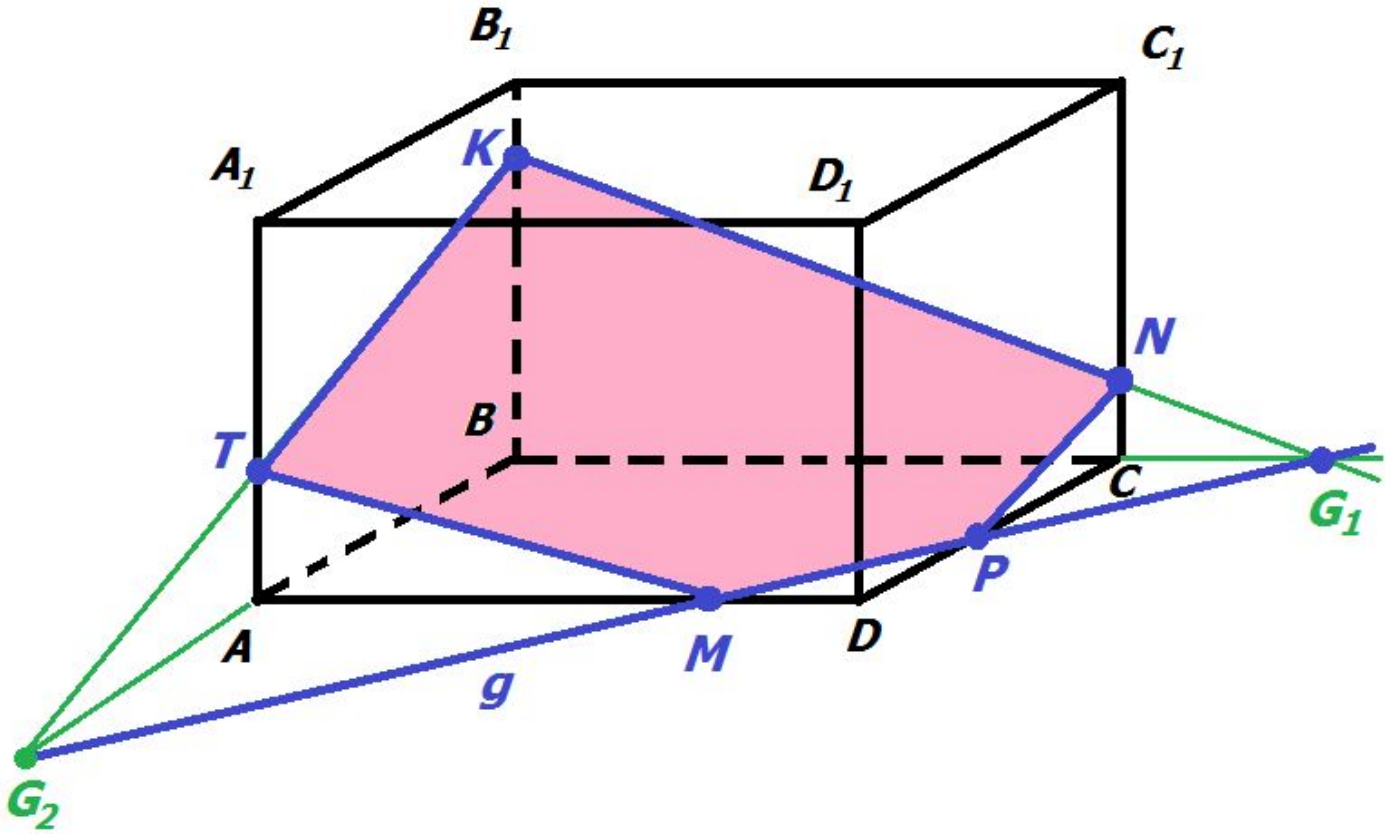
1. $G_1 = BC \cap KN$
2. $g = MG_1$
3. $P = g \cap CD$
4. PN
5. $G_2 = AB \cap g$
6. $T = AA_1 \cap KG_2$

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-искомое сечение