



ARMENIAN STATE PEDAGOGICAL UNIVERSITY  
AFTER KHACHATUR ABOVYAN



# INTERDISCIPLINARY CONNECTION BETWEEN CHESS AND MATEMATICS

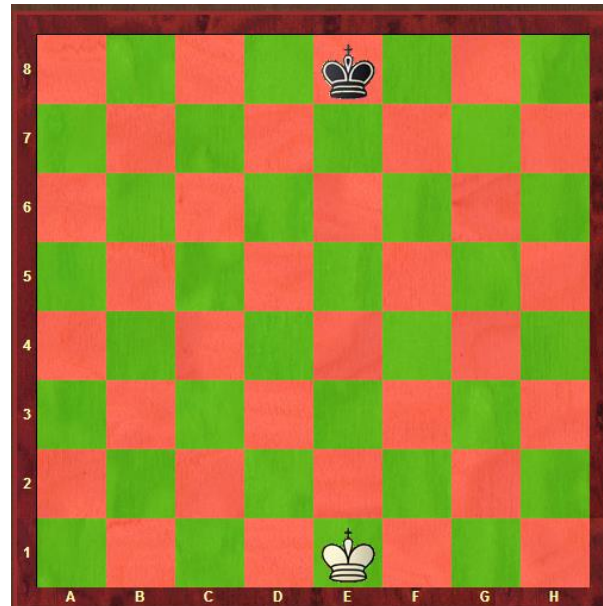
**Samvel Misakyan**

“Chess” Scientific Research Institute

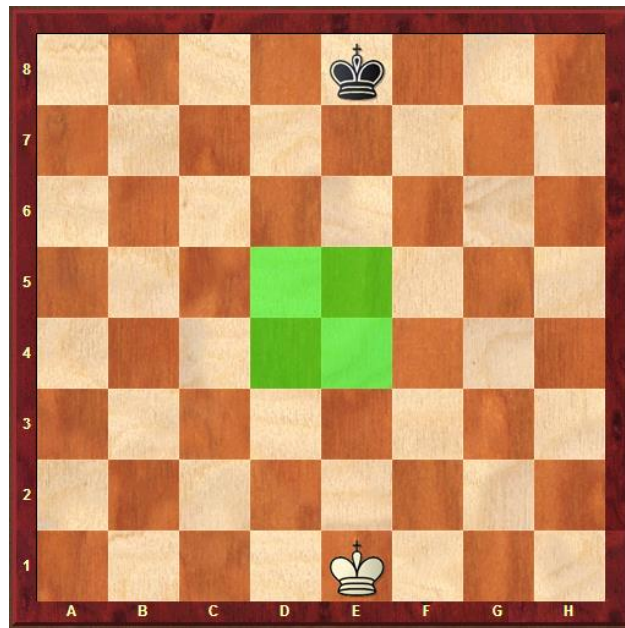
Lecturer at Chair of Chess and Sport in Kh. Abovyan

ASPU

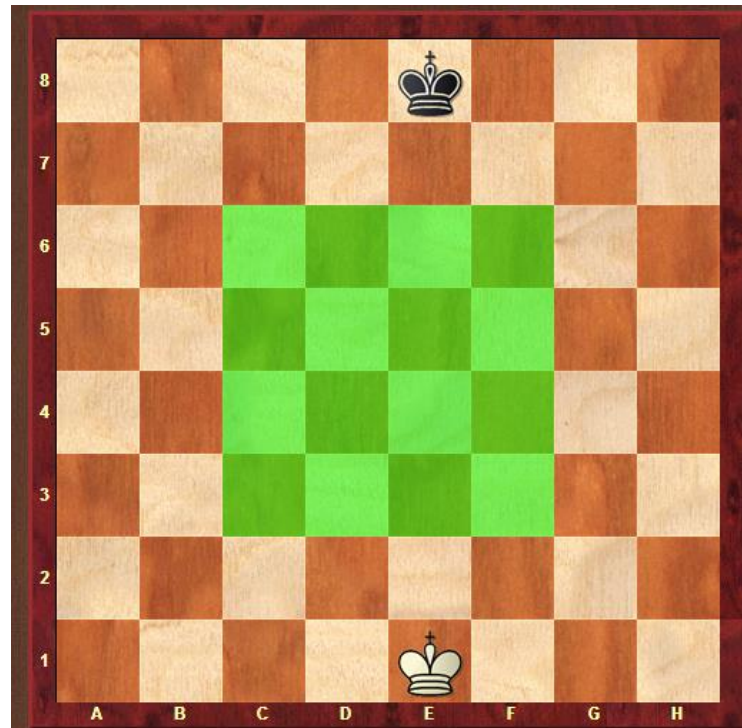
# CHESS BOARD SQUARES



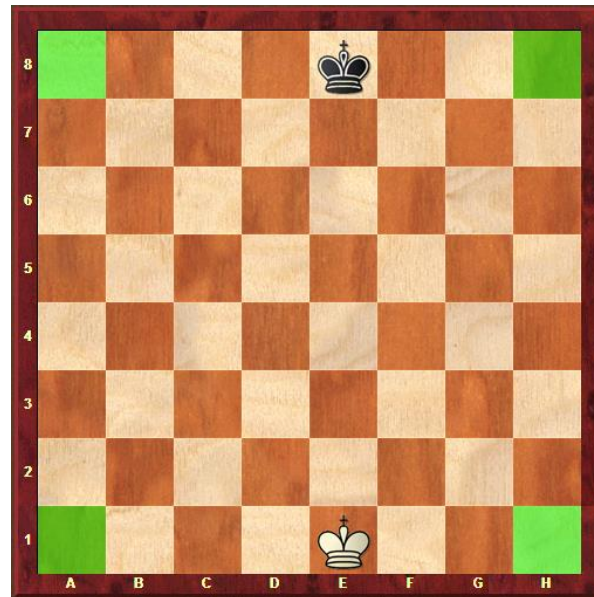
# CENTER



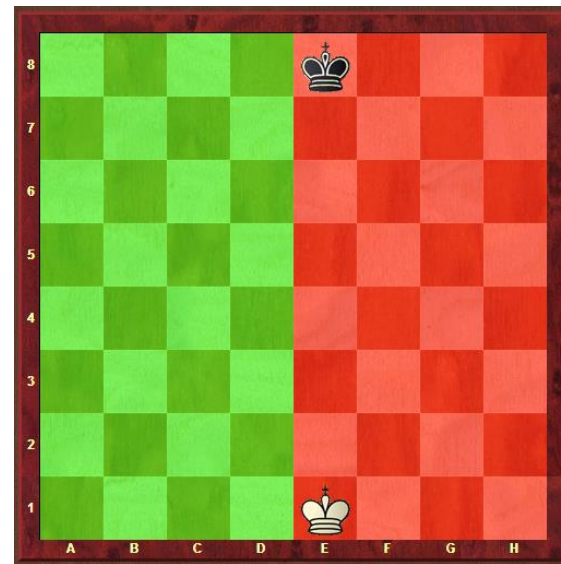
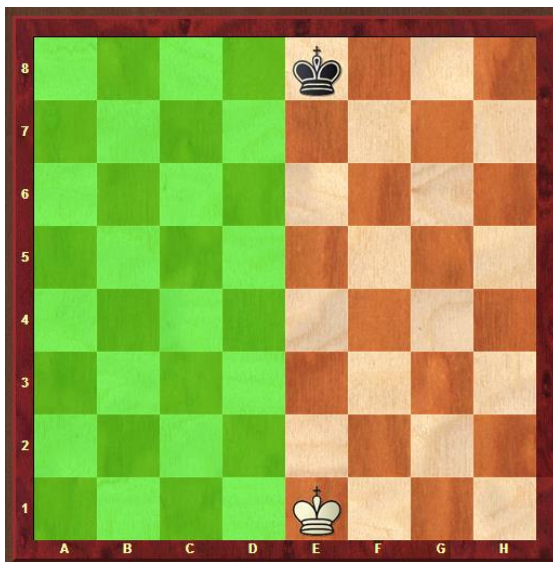
# BIG CENTER



# ANGUALR SQUARES

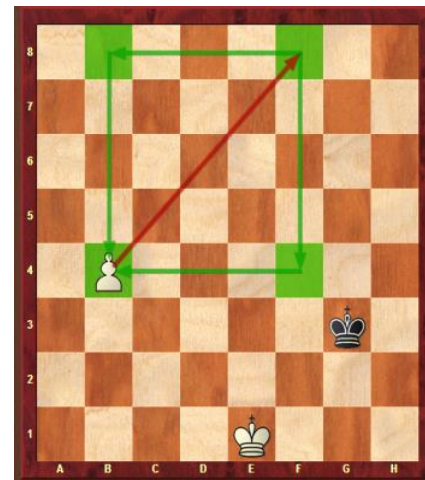
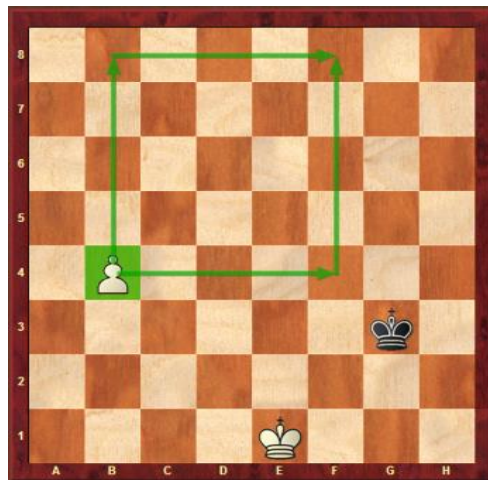


# QUEEN AND KING FLANKES



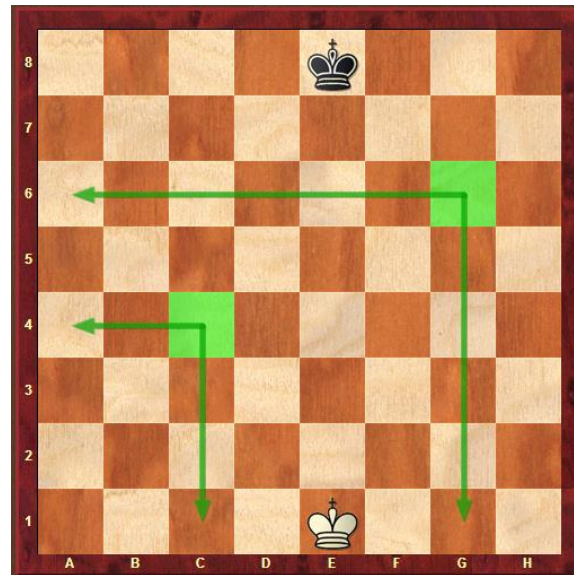
# PAWN SQUARE

## \* SQUARE BUILDING

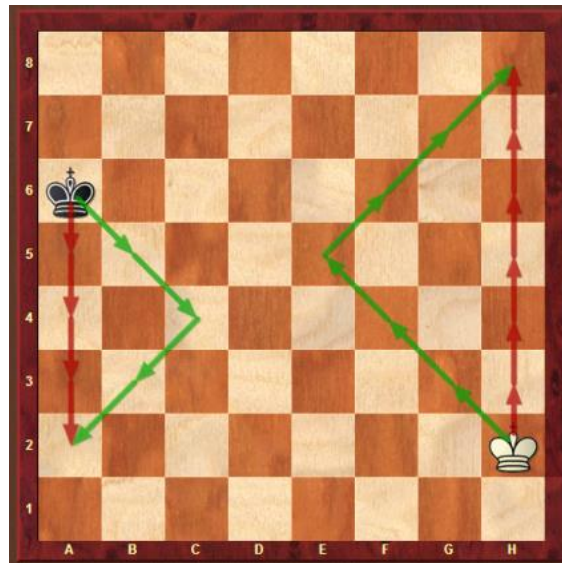


# CHESS SQUARES LEARNING

- \* c4 and g6 squares as a point coordinates on the plane



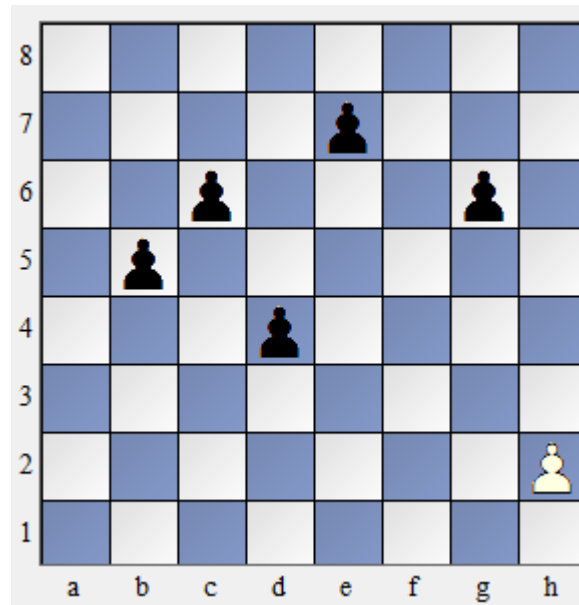
# KING'S DISRUPTION



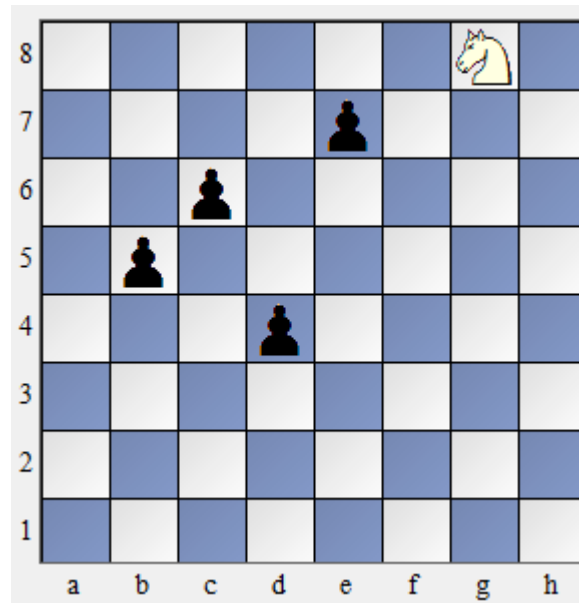
# KING'S DISRUPTION



# CALCULATION OF MOVES

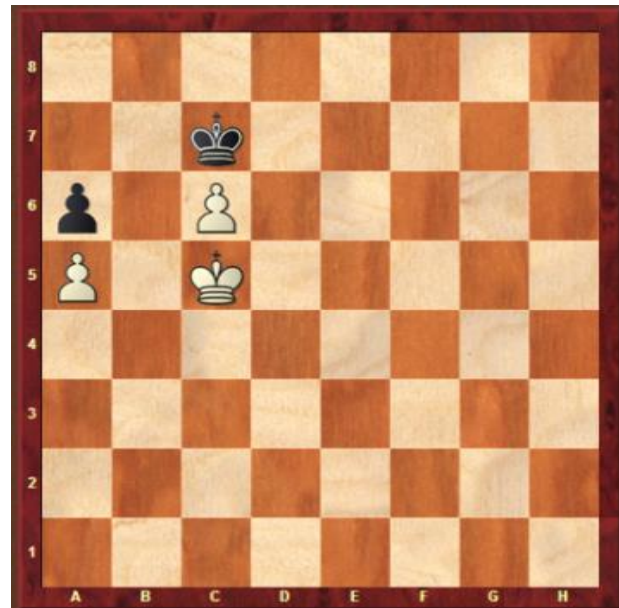


# CALCULATION OF MOVES

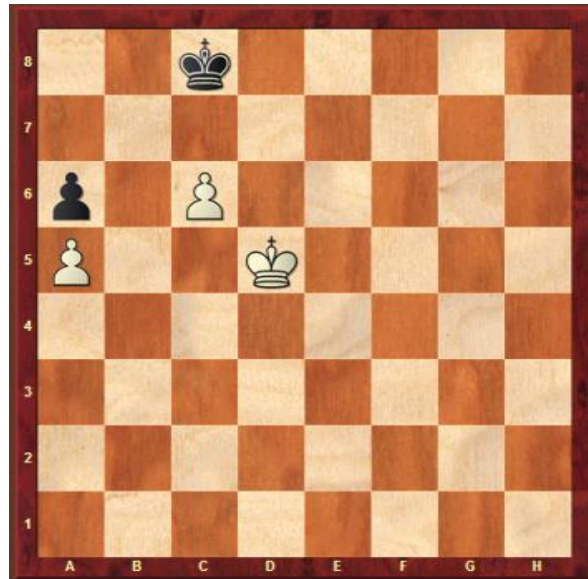


# PAWN ENDGAME

\* Triangle rule



# PAWN ENDGAME



# PAWN ENDGAME



# “ZUGZWANG” MATE IN 2 MOVES

- \* Position analyses and evaluation



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**THANK UOU!!!**

