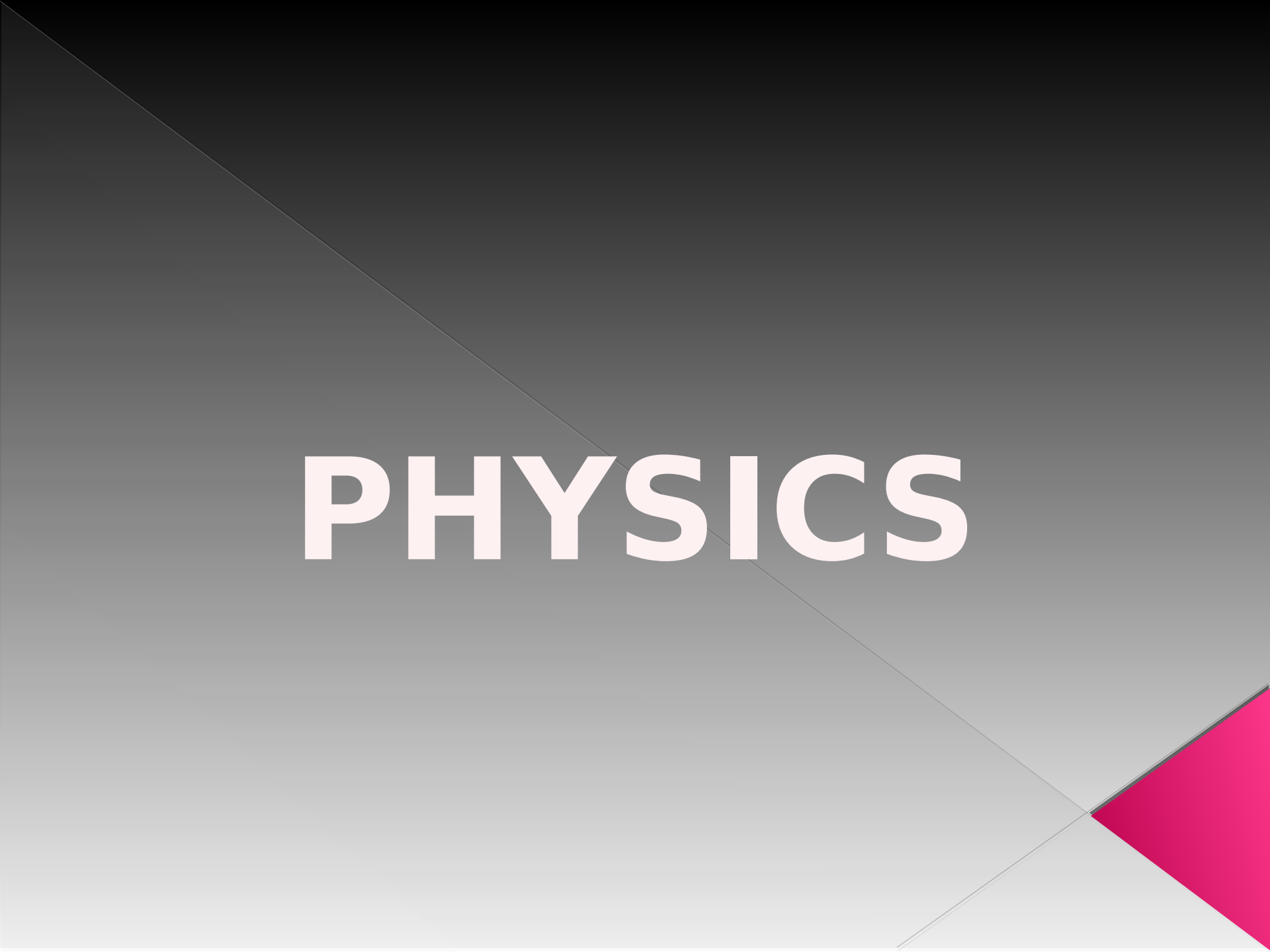
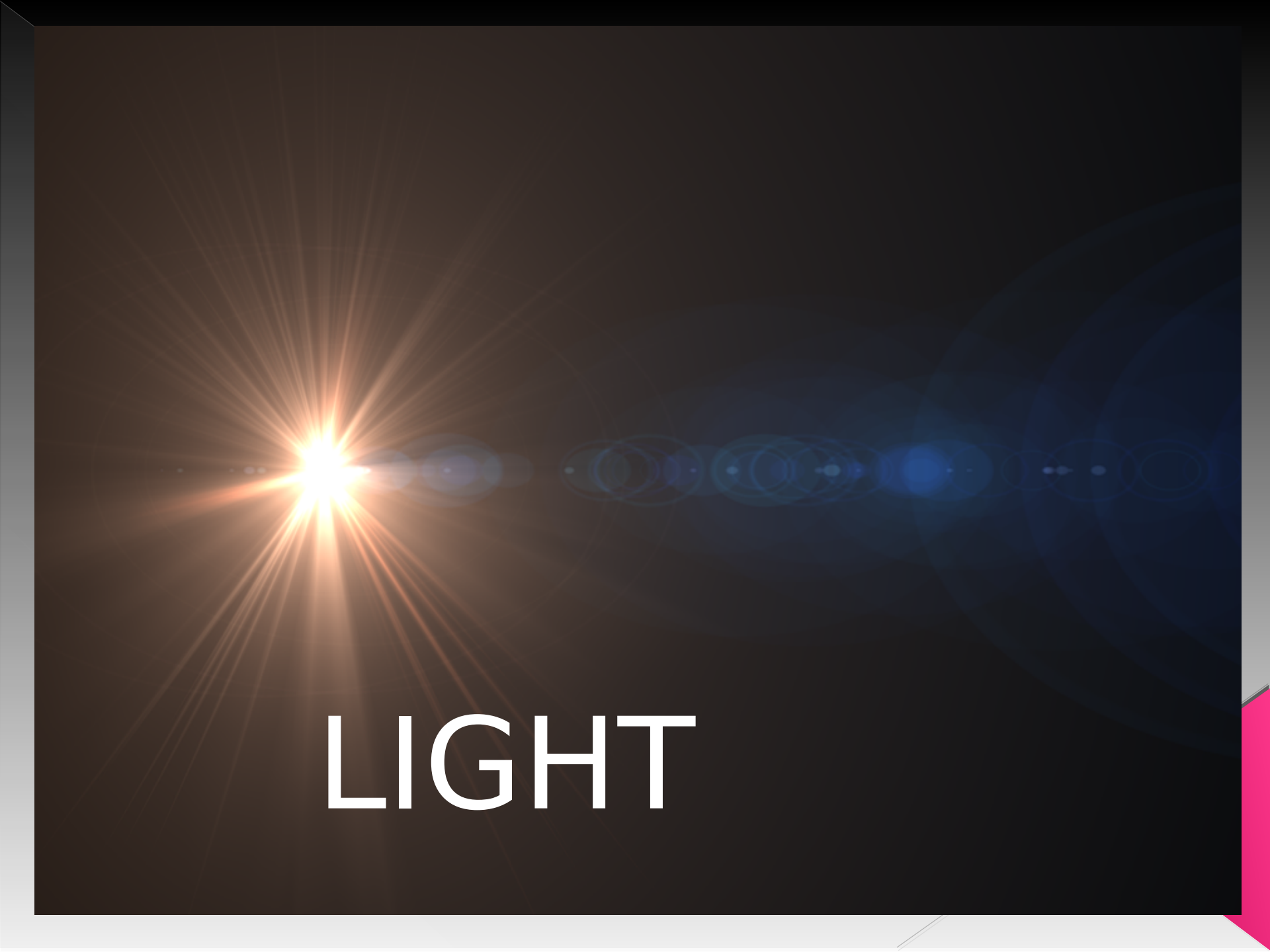


# PHYSICS

The background features a diagonal gradient from dark grey at the top-left to light grey at the bottom-right. A bright pink triangle is positioned in the bottom-right corner, pointing towards the center. The word 'PHYSICS' is centered in a bold, white, sans-serif font.



LIGHT

# What is Light?



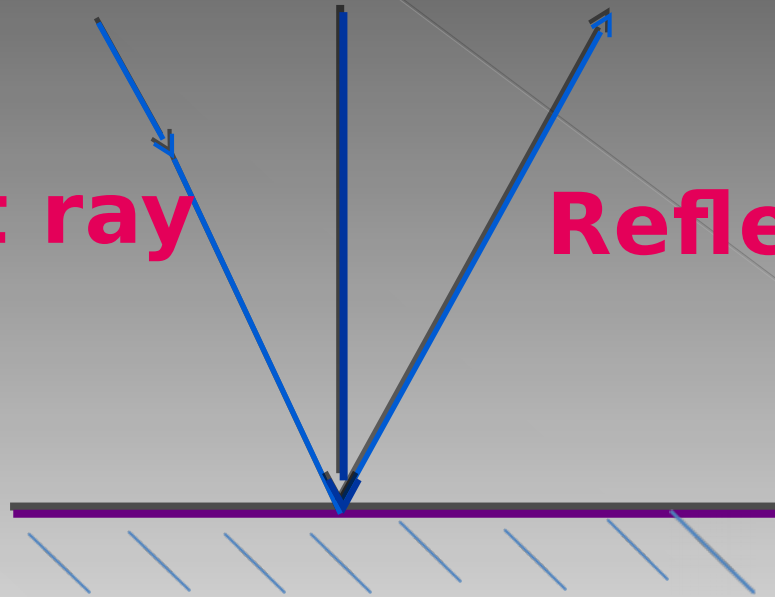
What you observe from this picture?



**NORMAL**

**Incident ray**

**Reflected ray**



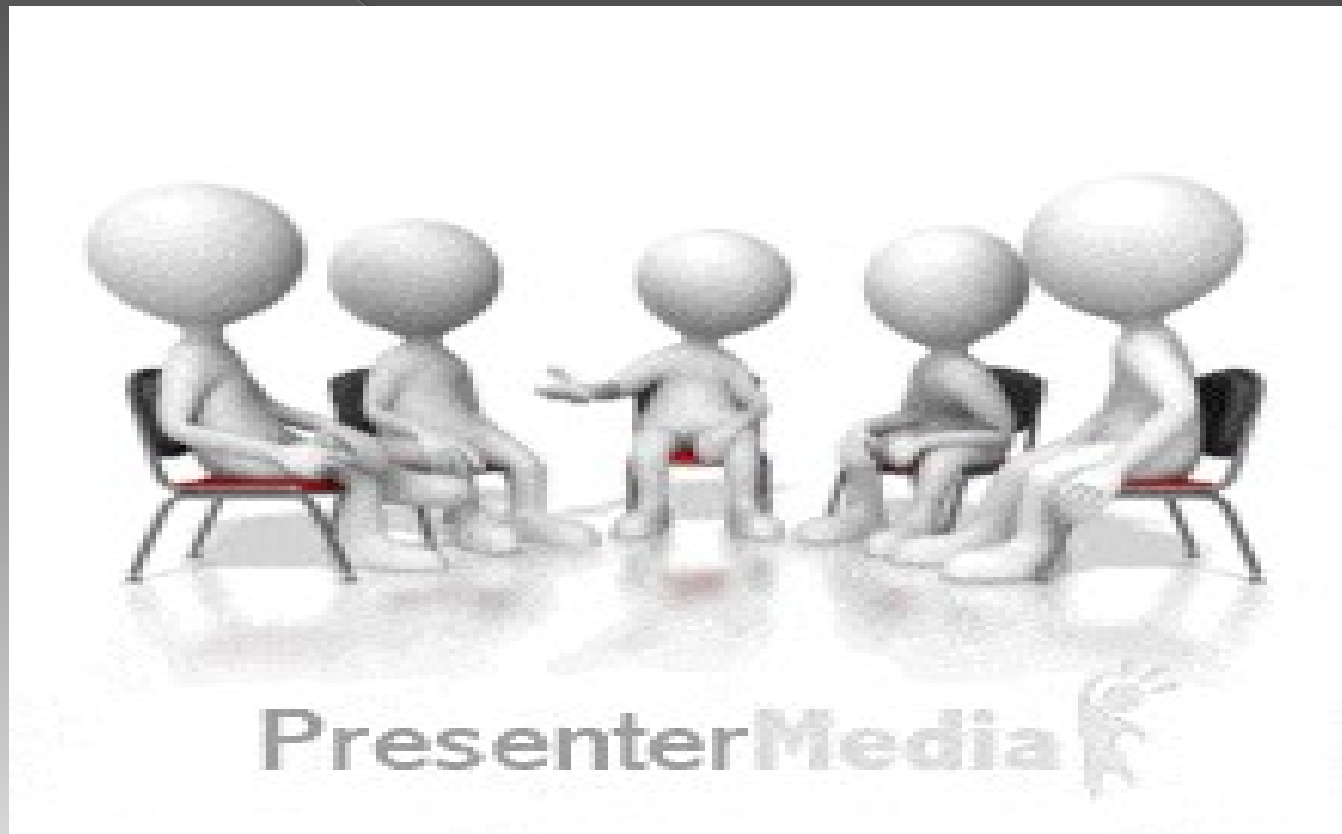




**WHY YOU SEEN  
NUMBER OF  
IMAGES WHEN  
YOU SIT IN  
BETWEEN TWO  
MIRRORS ?**



# ACTIVITY



# Example-1



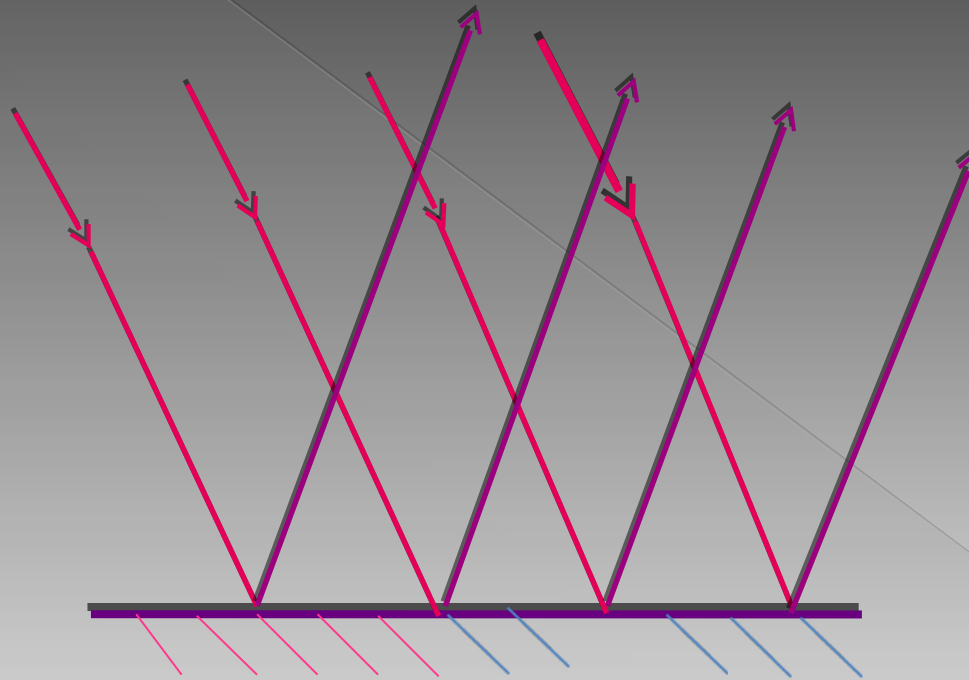
# Example-2



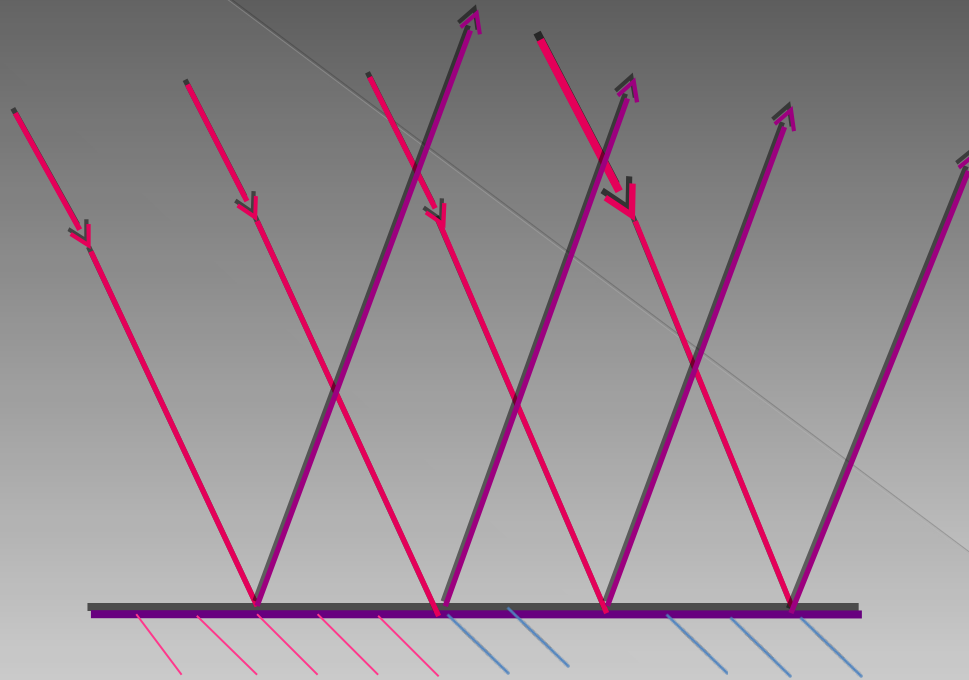
# Example-3



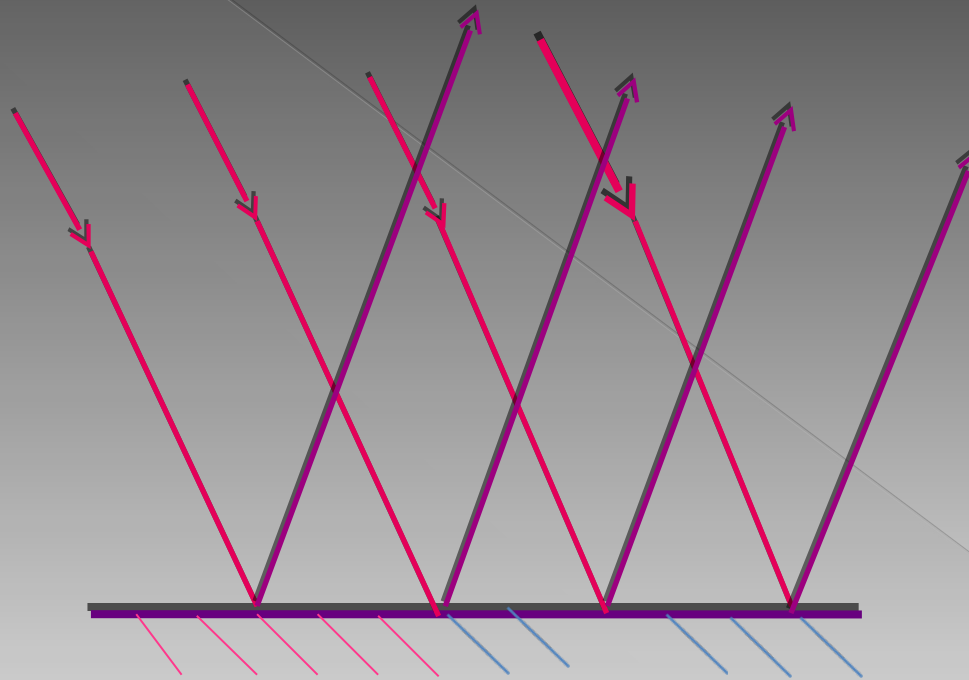
# EXAMPLE-1 MIRROR



# EXAMPLE-2 STEEL PLATE



# EXAMPLE-3 BRONZE SURFACE



# TABULAR COLUMN

| SL No | EXAMPLES             | TYPE OF SURFACE | INCIDENT RAYS | REFLECTED RAYS |
|-------|----------------------|-----------------|---------------|----------------|
| 1     | <b>MIRROR</b>        | smooth          | parallel      | parallel       |
| 2     | <b>STEEL SURFACE</b> | smooth          | parallel      | parallel       |
| 3     | <b>BRONZE</b>        | smooth          | parallel      | parallel       |

# MEANING-REGULAR REFLECTION

- **THE PARALLEL  
INCIDENT RAYS  
REFLECTED PARALLELLY  
FROM THE SMOOTH  
SURFACE IS CALLED  
REGULAR REFLECTION**

two mirrors at 60 degree



two mirrors at 45 degree



two mirrors at 90 degree



# TABLE

| SL No | EXAMPLES                                                                            | ANGLE<br>INCLINATION | NO.OF<br>IMAGES |
|-------|-------------------------------------------------------------------------------------|----------------------|-----------------|
| 1     |    | 90                   | 3               |
| 2     |   | 60                   | 5               |
| 3     |  | 45                   | 7               |

# FORMULA

- No OF IMAGES  
= (360degree/angle b/w  
the mirrors)-1

# video

[Video\\_Zip\\_20170214\\_002358.mp4](#)

# Meaning of multiple images

- **Multiple images are the images that are formed when two or more mirrors are placed in front of each other and an object is placed b/w the two mirrors.**