

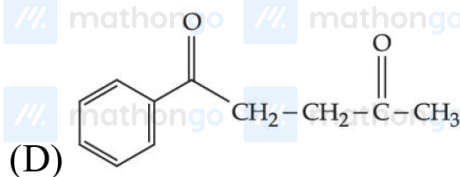
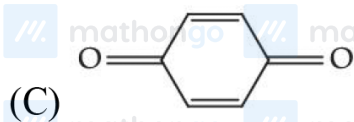
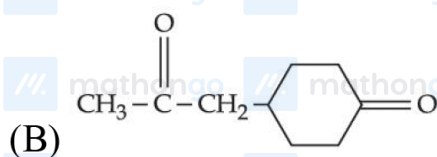
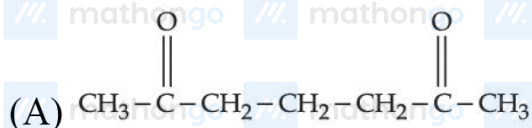
Questions

MathonGo

Q1 - 24 June - Shift 1

Which of the following is an example of conjugated diketone?

Space for your notes:



Q2 - 25 June - Shift 2

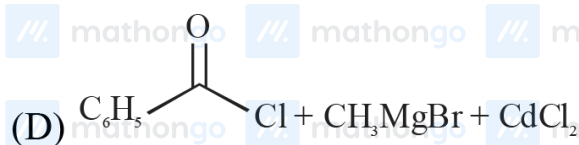
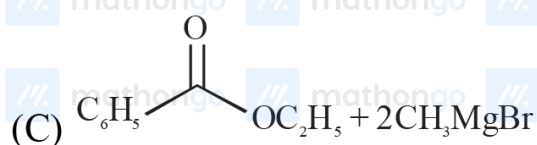
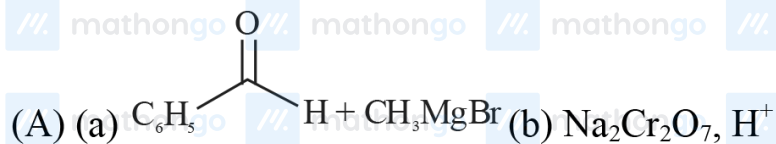
#MathBoleTohMathonGo

Questions

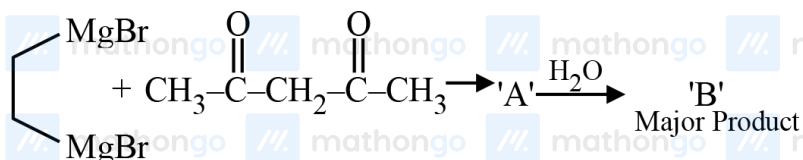
MathonGo

Which of the following conditions or reaction sequence will NOT give acetophenone as the major product ?

Space for your notes:

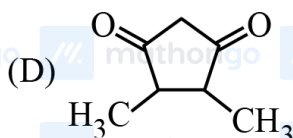
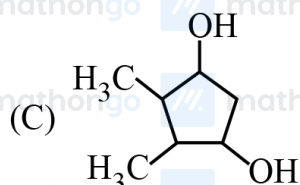
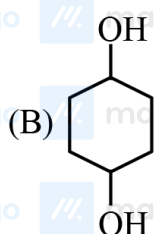
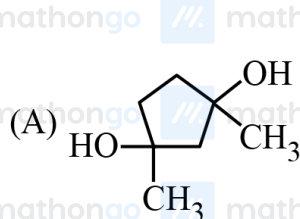


Q3 - 26 June - Shift 1



Space for your notes:

Consider the above reaction sequence and identify the product B.

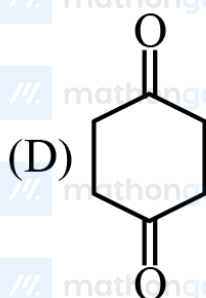
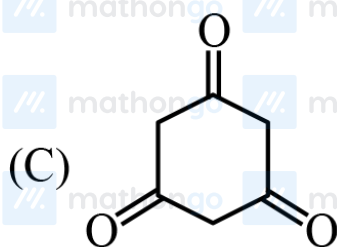
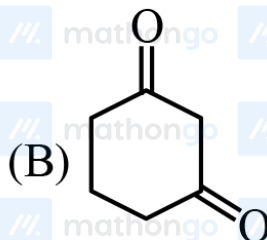
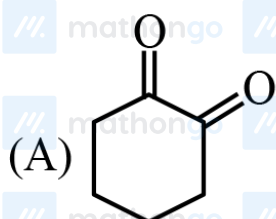


#MathBoleTohMathonGo

Q4 - 26 June - Shift 1

Which will have the highest enol content ?

Space for your notes:



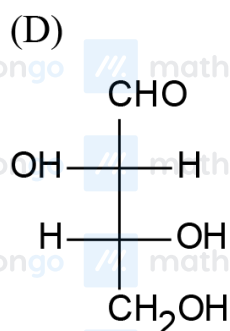
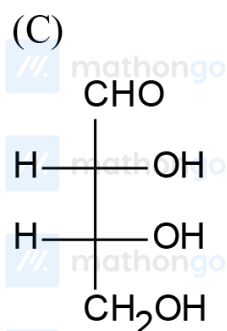
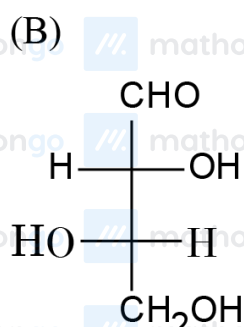
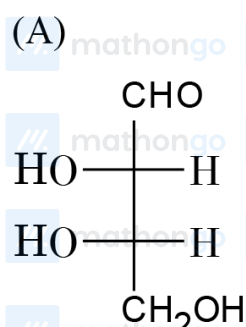
Q5 - 26 June - Shift 2

Questions

MathonGo

L-isomer of a compound 'A' ($C_4H_8O_4$) gives a positive test with $[Ag(NH_3)_2]^+$. Treatment of 'A' with acetic anhydride yield triacetate derivative.

Compound 'A' produces an optically active compound (B) and an optically inactive compound (C) on treatment with bromine water and HNO_3 respectively, compound (A) is:



Q7 - 28 June - Shift 1

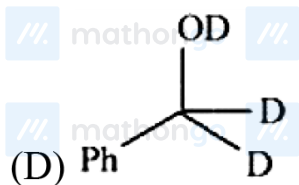
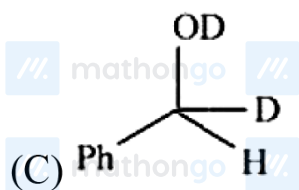
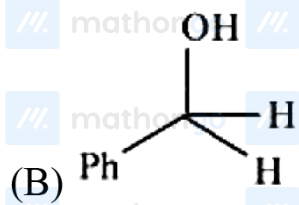
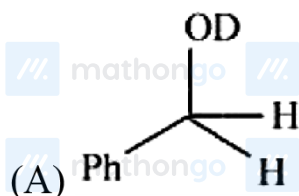
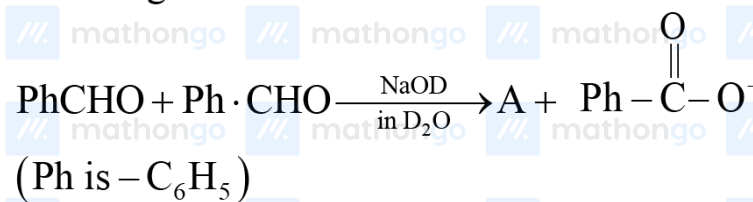
#MathBoleTohMathonGo

Questions

MathonGo

The correct structure of product 'A' formed in the following reaction.

Space for your notes:



Q8 - 28 June - Shift 2

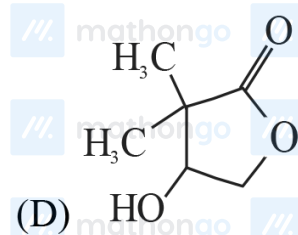
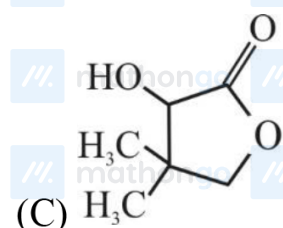
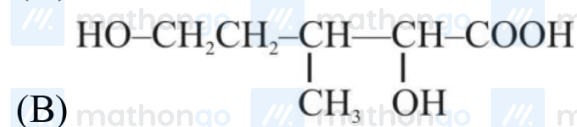
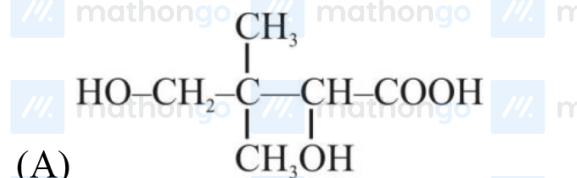
#MathBoleTohMathonGo

Questions

MathonGo

Isobutyraldehyde on reaction with formaldehyde and K_2CO_3 gives compound 'A'. Compound 'A' reacts with KCN and yields compound 'B', which on hydrolysis gives a stable compound 'C'. The compound 'C' is :

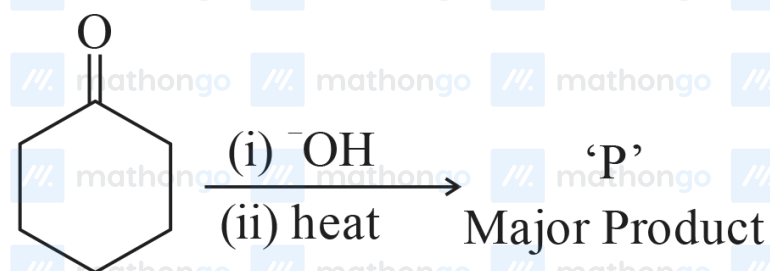
Space for your notes:



Q9 - 29 June - Shift 2

In the given reaction,

Space for your notes:



The number of π electrons present in the product 'P' is _____.

#MathBoleTohMathonGo

Questions

MathonGo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

Answer Key

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

Q1 (C) **Q2 (C)** **Q3 (A)** **Q4 (C)**
/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

Q5 (A) **Q6 (A)** **Q7 (A)** **Q8 (C)**
/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

Q9 (4)
/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

#MathBoleTohMathonGo

Hints and Solutions

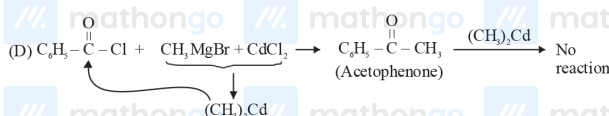
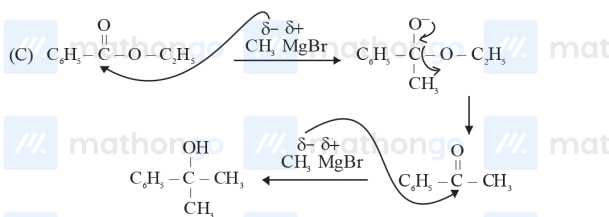
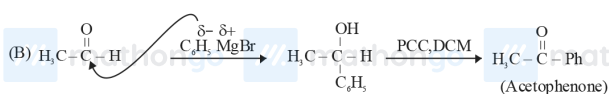
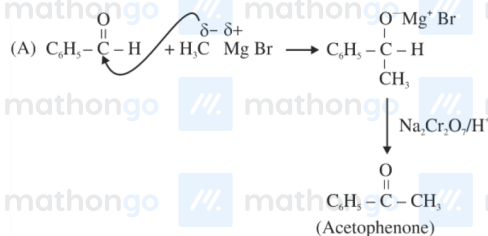
MathonGo

Q1 (C)



is a conjugated diketone

Q2 (C)



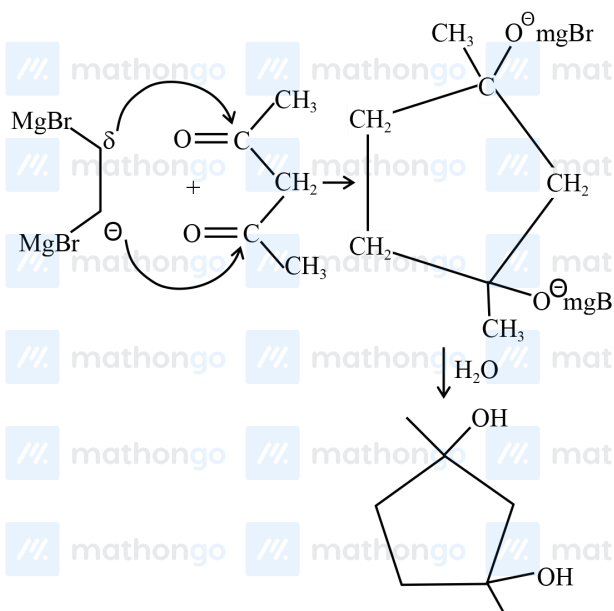
Q3 (A)

#MathBoleTohMathonGo

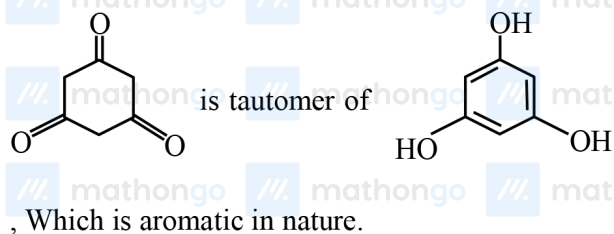
Hints and Solutions

MathonGo

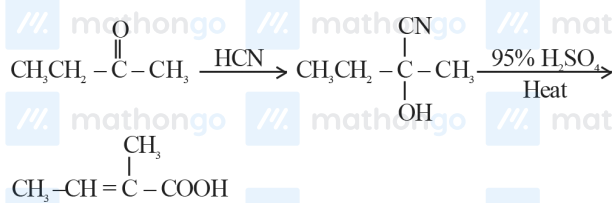
Although Acetyl Acetone predominantly gives Acid base reaction with G.R due to Active methylene group but according to given option ans should be based on nucleophilic addition reaction (NAR).



Q4 (C)



Q5 (A)

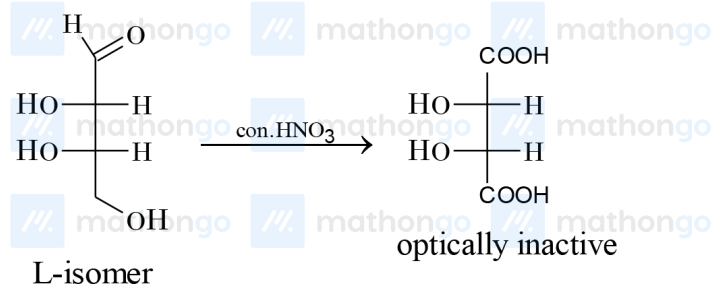
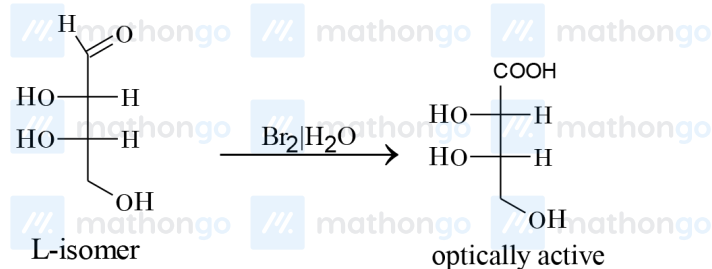


Q6 (A)

#MathBoleTohMathonGo

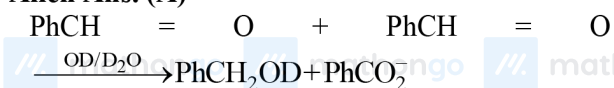
Hints and Solutions

MathonGo

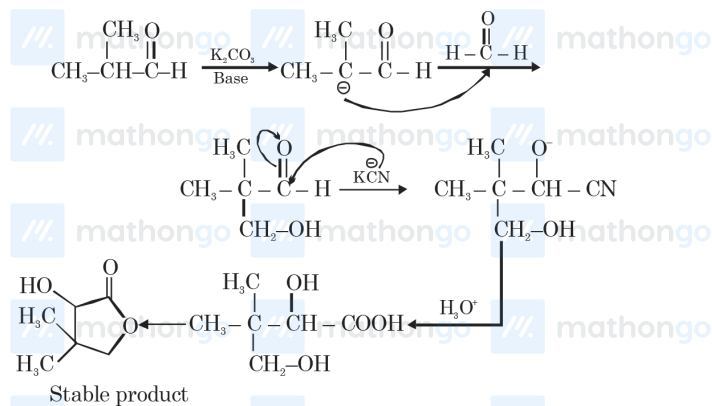


Q7 (A)

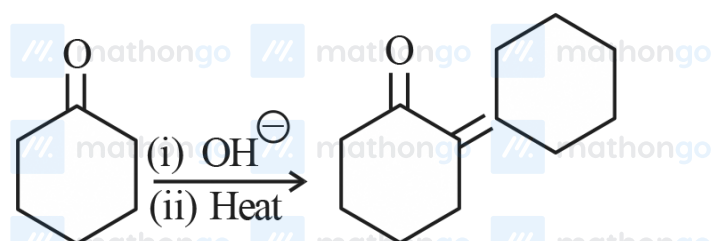
Allen Ans. (A)



Q8 (C)



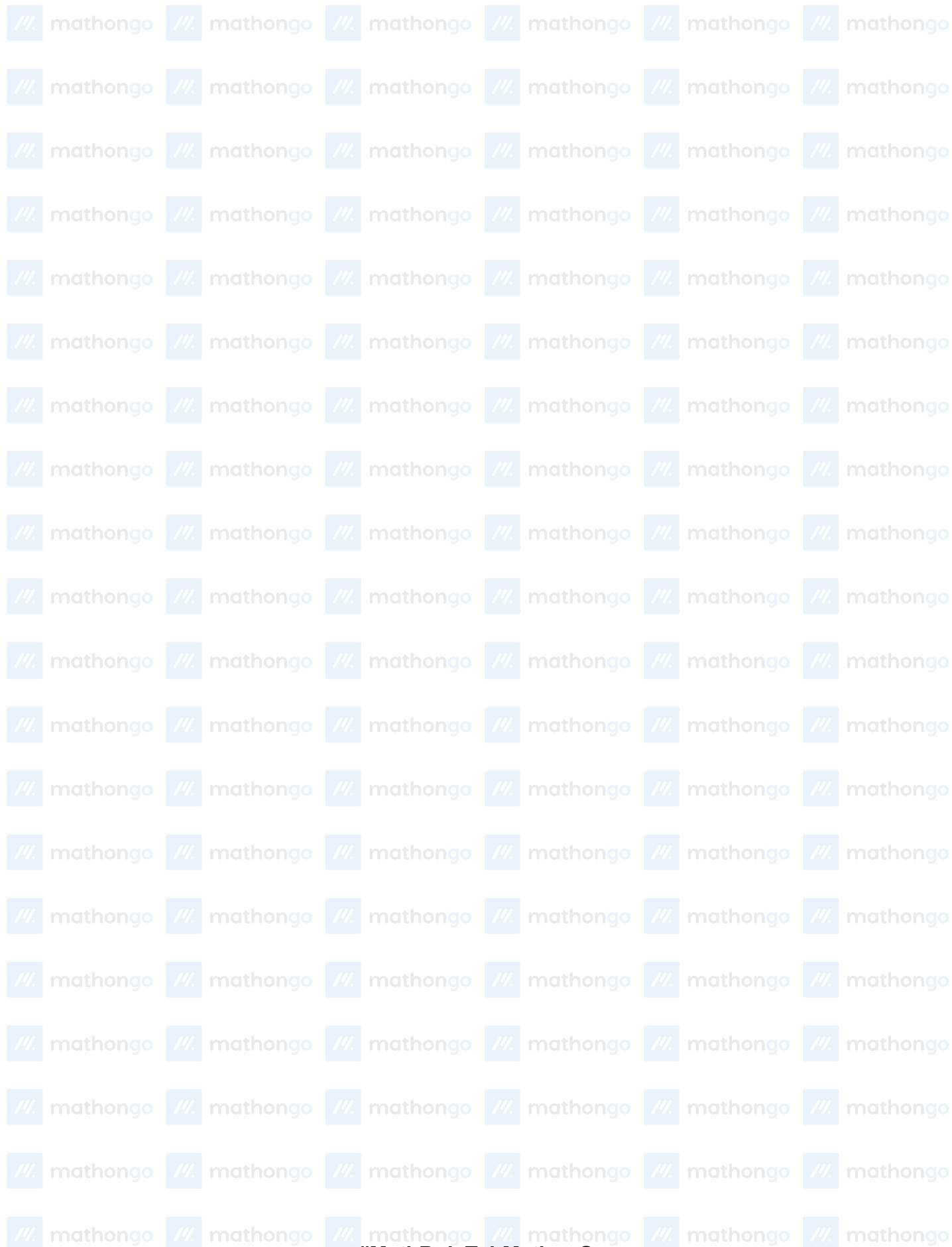
Q9 (4)



#MathBoleTohMathonGo

Hints and Solutions

MathonGo



#MathBoleTohMathonGo

To practice more chapter-wise JEE Main PYQs, [click here to download the MARKS app](#) from Playstore