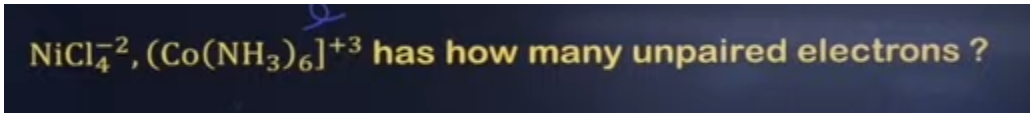
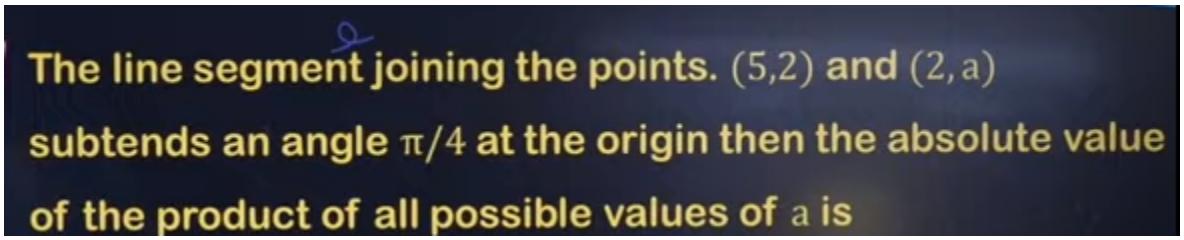
JEE Main 2024 April 8 Shift 2 Answer Key

1.



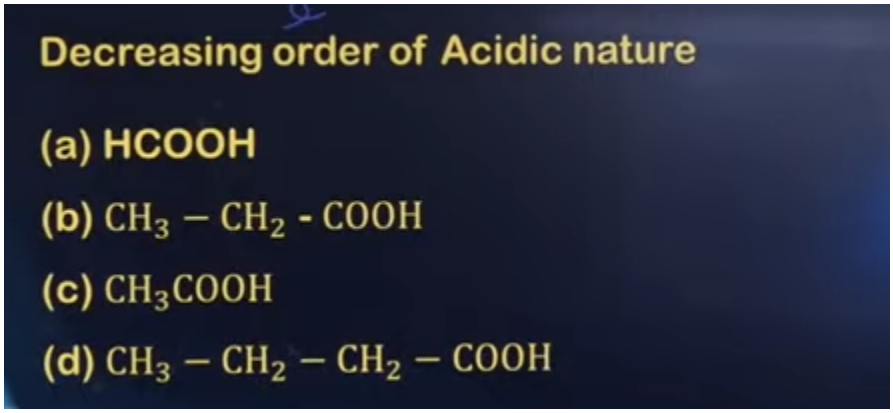
Answer: 2

2.



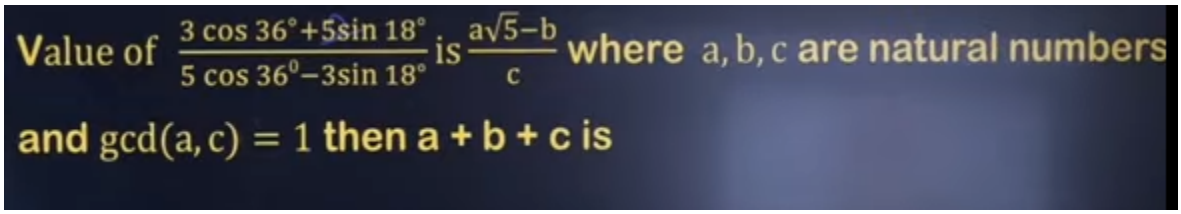
Answer: -4

3.



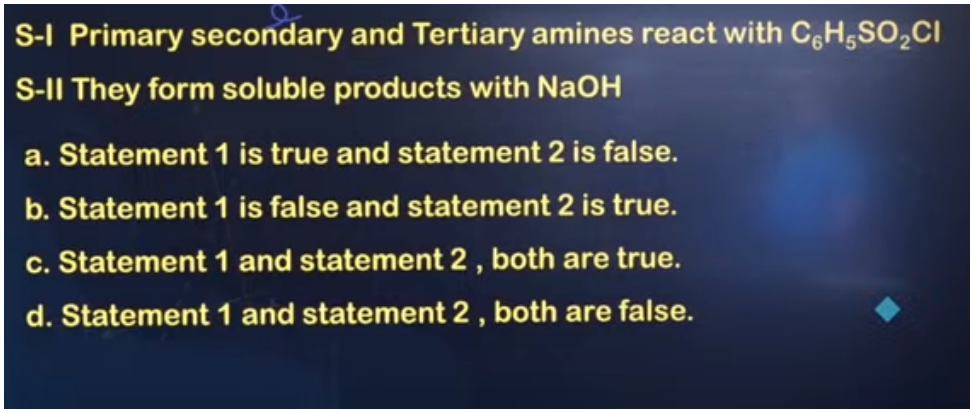
Answer: A > C > B > D

4.



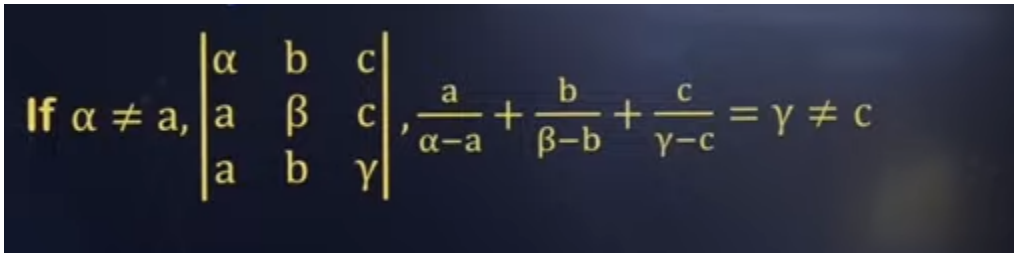
Answer: 52

5.



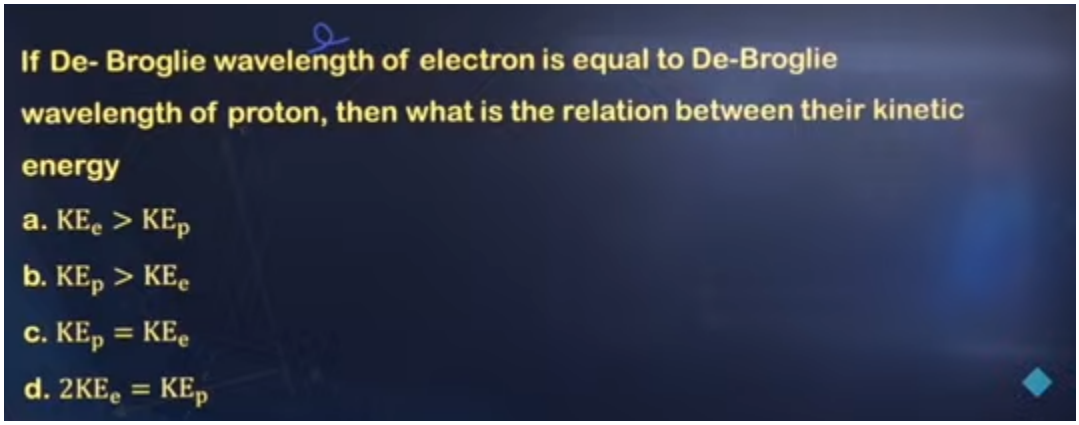
Answer: D

6.



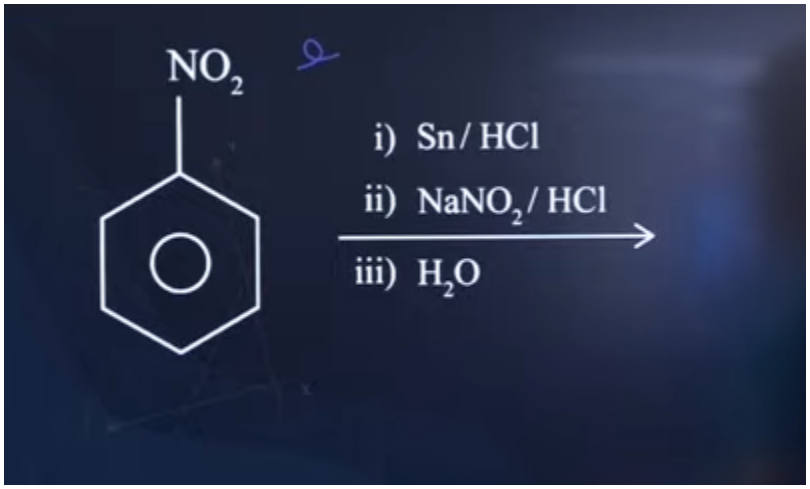
Answer: 1

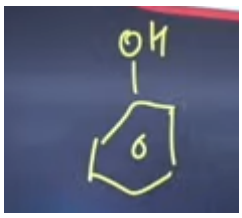
7.



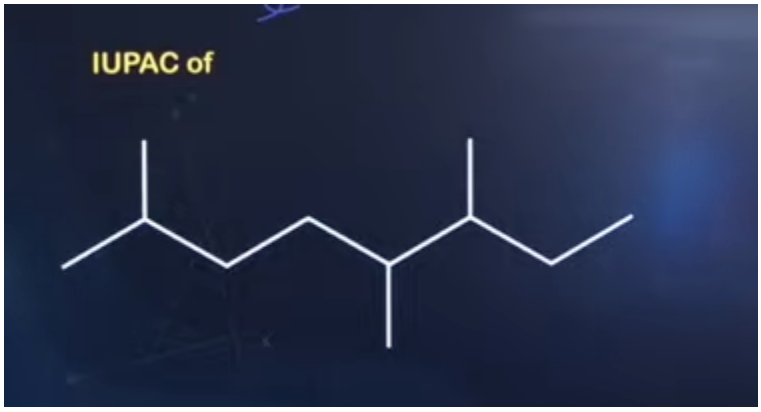
Answer: A

8.



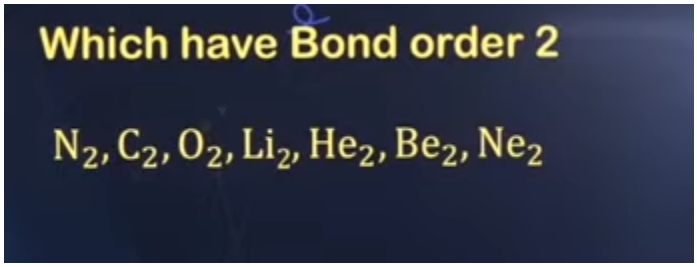
Answer: 

9.



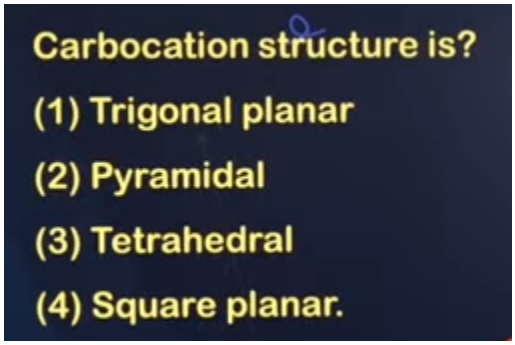
Answer: Trimethyloctane

10.



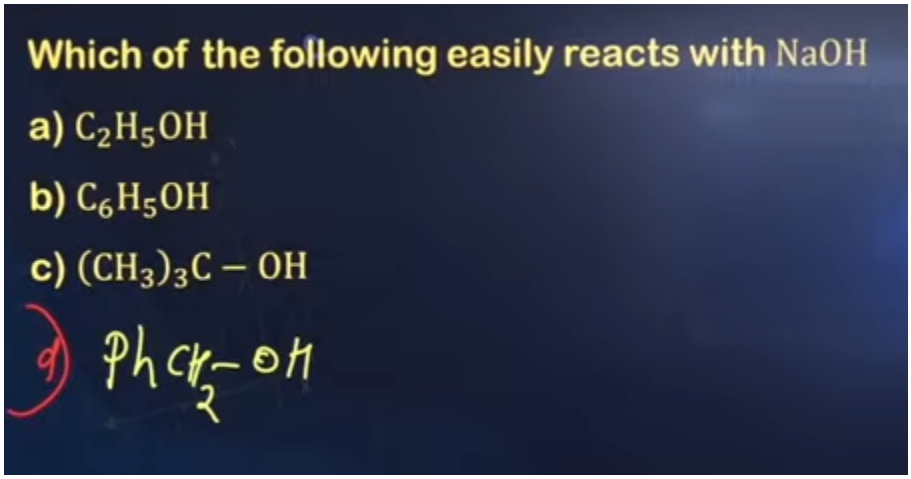
Answer: C2, O2

11.



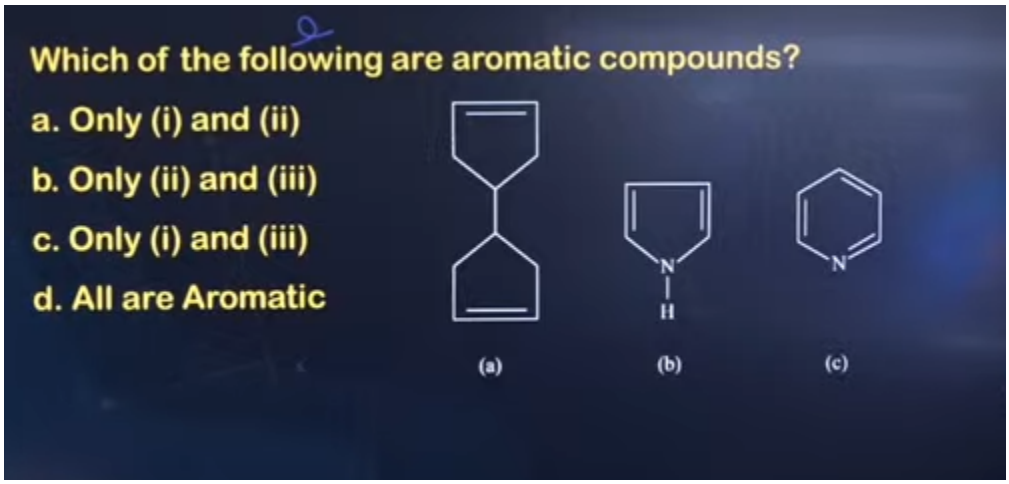
Answer: A

12.



Answer: B

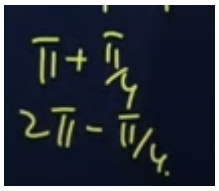
13.



Answer: B

14.

The sum of all possible values of $\theta \in [-\pi, 2\pi]$, for $\frac{1+i\cos\theta}{1-2i\cos\theta}$ is purely imaginary.

Answer: 

15.

$y = y(x)$ be the solution curve of the differential equation $\sec y \frac{dy}{dx} + 2x\sin y = x^3\cos y, y(1) = 0$ the $y\sqrt{3}$ is

Answer: tan inverse (2)

16.

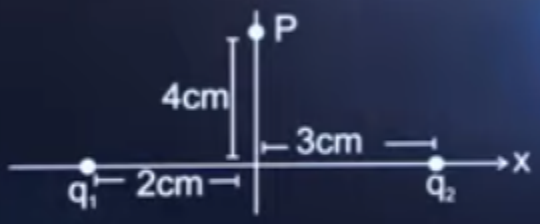
a Figure shows two charges q_1 & q_2 placed on x-axis as shown. If electric field at P is along X - direction, find $\frac{q_1}{q_2}$

(a) $\frac{4\sqrt{5}}{25}$

(b) $\frac{8\sqrt{5}}{25}$

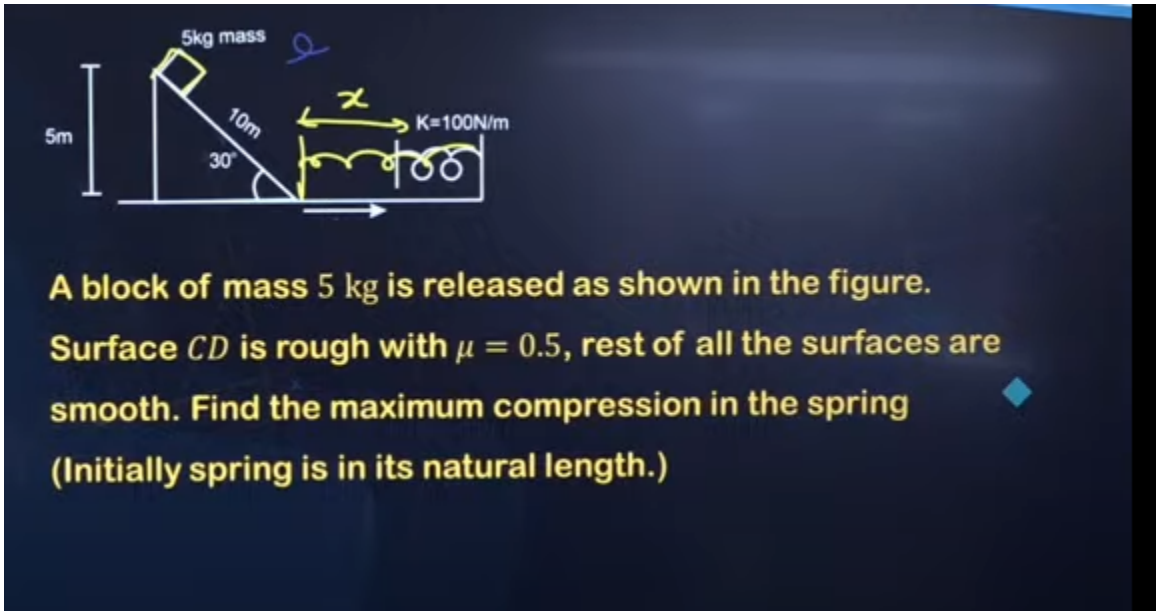
(C) $\frac{12}{25}$

(d) $\frac{16\sqrt{5}}{25}$



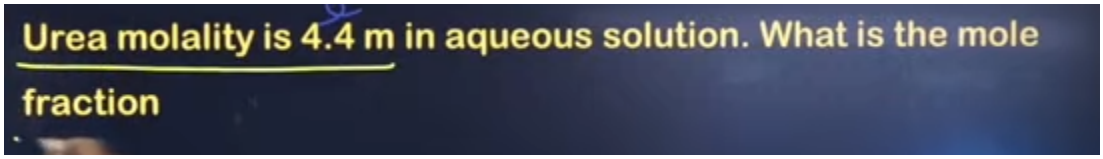
Answer: B

17.



Answer: x=2

18.



Answer: 0.0735