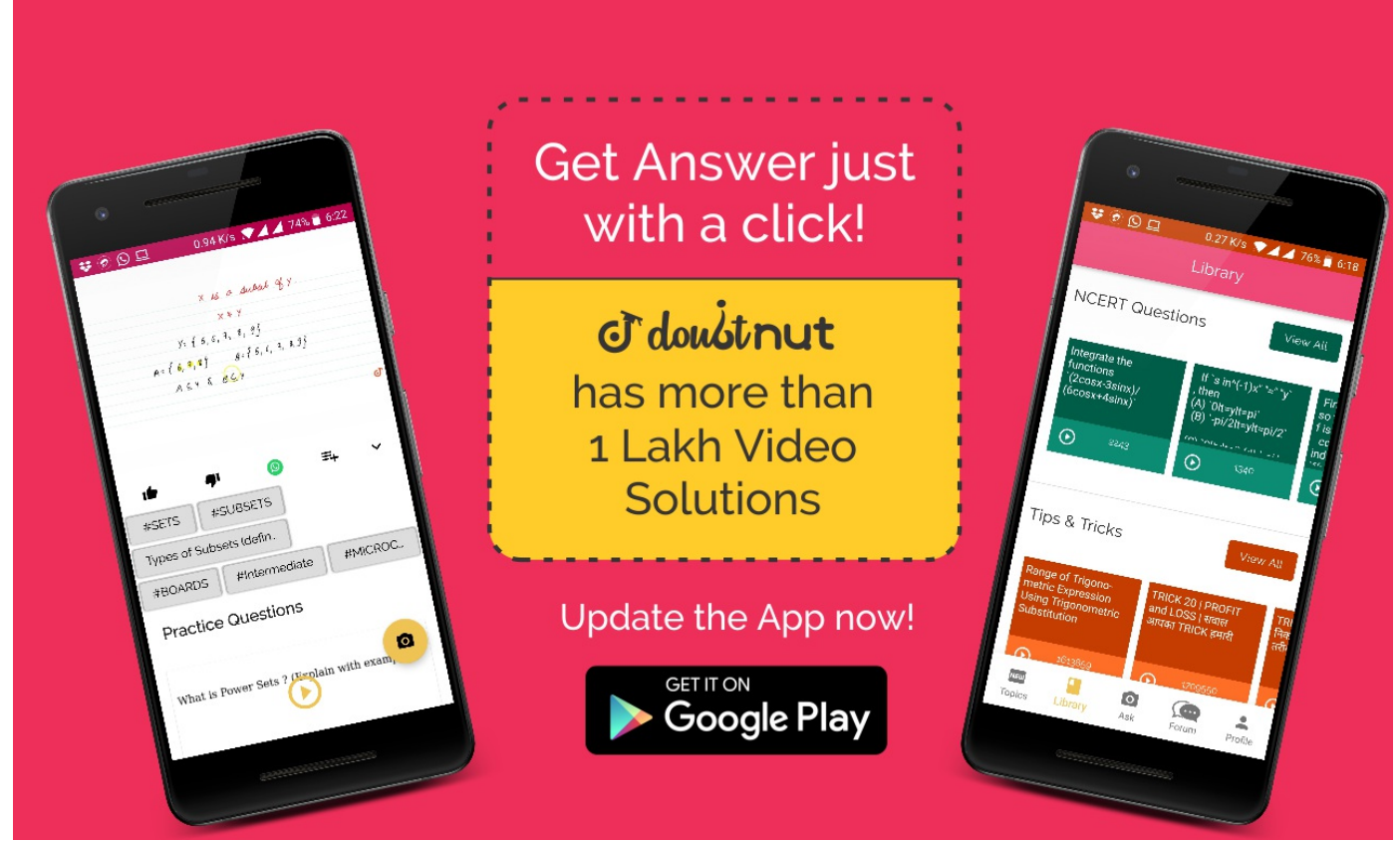


Ques No.	Question
1	<p>NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - EXERCISE 6.1 - Q 1</p> <p>In Fig. 6.13, lines AB and CD intersect at O. If $\angle AOC + \angle BOE = 70^\circ$ and $\angle BOD = 40^\circ$, find $\angle BOE$ and reflex $\angle COE$.</p> <p>Watch Free Video Solution on Doubtnut</p>
2	<p>NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - EXERCISE 6.1 - Q 2</p> <p>In fig: 6.14, lines XY and MN intersect at O. If $\angle POY = 90^\circ$ and $a : b = 2 : 3$, find c.</p> <p>Watch Free Video Solution on Doubtnut</p>
3	<p>NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - EXERCISE 6.1 - Q 3</p> <p>In Fig. 6.15, $\angle PQR = \angle PRQ$, then prove that $\angle PQS = \angle PRT$.</p> <p>Watch Free Video Solution on Doubtnut</p>
4	<p>NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - EXERCISE 6.1 - Q 4</p> <p>In Fig. 6.16, if $x + y = w + z$, then prove that AOB is a line.</p> <p>Watch Free Video Solution on Doubtnut</p>
5	<p>NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - EXERCISE 6.1 - Q 5</p> <p>In Fig. 6.17, POQ is a line. Ray OR is perpendicular to line PQ. OS is another ray lying between rays OP and OR. Prove that $\angle ROS = \frac{1}{2}(\angle QOS - \angle POS)$.</p> <p>Watch Free Video Solution on Doubtnut</p>



6

NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - EXERCISE 6.1 - Q 6

It is given that $\angle XYZ = 64^\circ$ and XY is produced to point P. Draw a figure from the given information. If ray YQ bisects $\angle ZYP$, find $\angle XYQ$ and reflex $\angle QYP$.

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7

NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - EXERCISE 6.2 - Q 1

In Fig. 6.28, find the values of x and y and then show that $AB \parallel CD$.

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8

NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - EXERCISE 6.2 - Q 2

In Fig. 6.29, if $AB \parallel CD$, $CD \parallel EF$ and $y : z = 3 : 7$, find x.

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9

NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - EXERCISE 6.2 - Q 3

In Fig. 6.30, if
 $AB \parallel CD$,
 $EF \perp CD$ and
 $\angle GED = 126^\circ$,
 find $(\angle AGE,$
 $\angle GEF$ and
 $\angle FGE)$

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NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - EXERCISE 6.2 - Q 4

In Fig. 6.31, if

10

$PQ \parallel ST$,
 $\angle PQR = 110^\circ$
 and $\angle RST = 130^\circ$,
 $\angle f \in d\angle QRS$

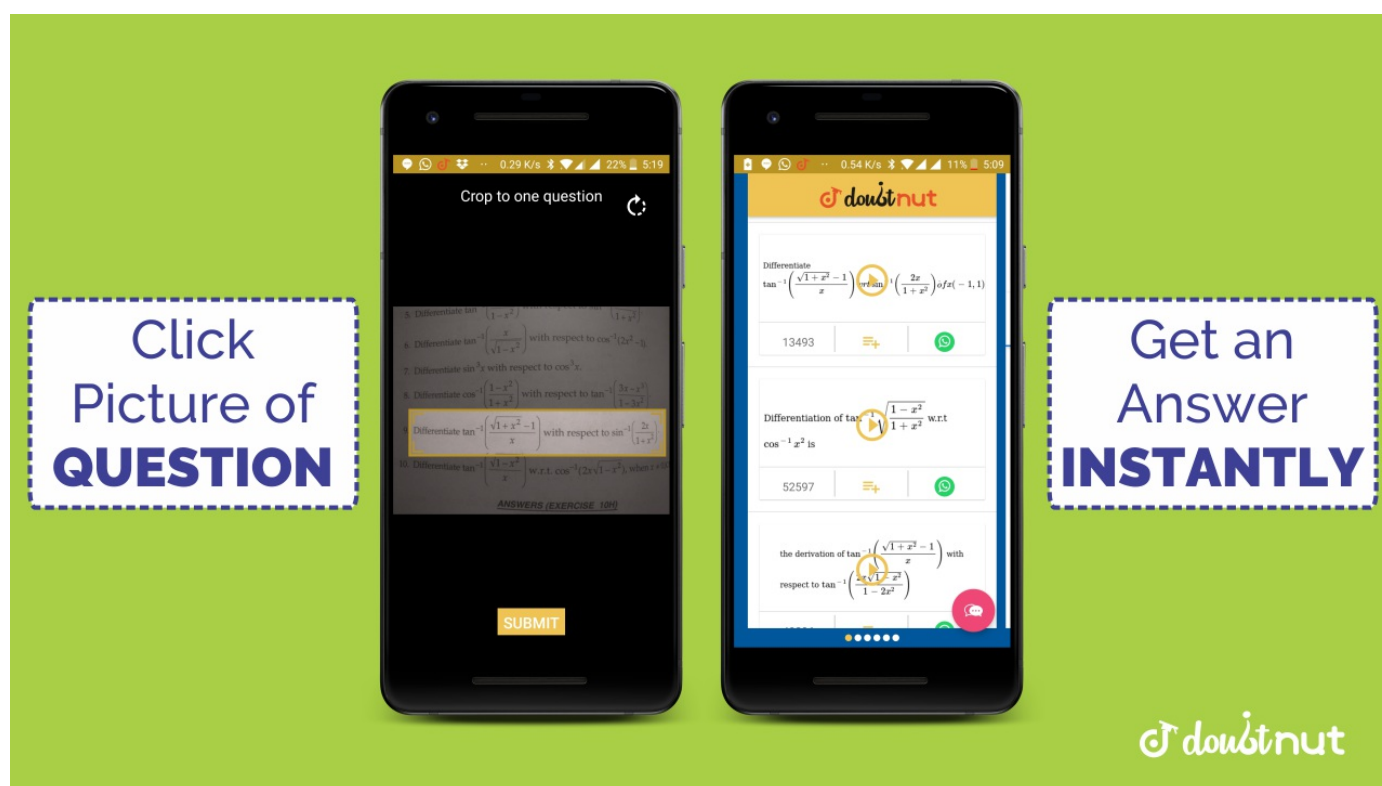
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11

NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - EXERCISE 6.2 - Q 5

In Fig. 6.32, if
 $AB \parallel CD$, $\angle APQ$
 $= 50^\circ$ and
 $\angle PRD = 127^\circ$
 , find x and y .

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12

NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - EXERCISE 6.2 - Q 6

In Fig. 6.33, PQ and RS are two mirrors placed parallel to each other. An incident ray AB strikes the mirror PQ at B , the reflected ray moves along the path BC and strikes the mirror RS at C and again reflects back along CD . Prove that $AB \parallel CD$.

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13

NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - EXERCISE 6.3 - Q 1

In Fig. 6.39, sides QP and RQ of $\triangle PQR$ are produced to points S and T respectively. If
 $\angle SPR = 135^\circ$
 and $\angle PQT$
 $= 110^\circ$, find
 $\angle PRQ$.

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NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - EXERCISE 6.3 - Q 2

14

In Fig. 6.40,
 $\angle X = 62^\circ$, $\angle XYZ$
 $= 54^\circ$
. If YO and ZO are the bisectors of
 $\angle XYZ$ and
 $\angle XZY$
respectively of
 $\triangle XYZ$,
 $\angle OZY$ and $\angle YOZ$

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NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - EXERCISE 6.3 - Q 3

15

In Fig. 6.41, if
 $AB \parallel DE$,
 $\angle BAC = 35^\circ$ and
 $\angle CDE = 53^\circ$,
find $\angle DCE$

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NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - EXERCISE 6.3 - Q 4

16

In Fig. 6.42, if lines PQ and RS intersect at point T, such that
 $\angle PRT = 40^\circ$,
 $\angle RPT = 95^\circ$ and
 $\angle TSQ = 75^\circ$,
find $\angle SQT$.

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NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - EXERCISE 6.3 - Q 5

17

In Fig. 6.43, if
 $PQ \perp PS$, $PQ \parallel SR$,
 $\angle SQR = 28^\circ$ and $\angle QRT = 65^\circ$

, then find the values of x and y.

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18

NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - EXERCISE 6.3 - Q 6

In Fig. 6.44, the side QR of PQR is produced to a point S. If the bisectors of $\angle PQR$ and $\angle PRS$ meet at point T, then prove that $\angle QTR = \frac{1}{2} \angle QPR$.

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19

NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - SOLVED EXAMPLES - Q 1

In Fig: 6.9. lines PQ and RS intersect each other at point O. If $\angle POR : \angle ROQ = 5 : 7$, find the all the angles.

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20

NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - SOLVED EXAMPLES - Q 2

In Fig. 6.10, ray OS stands on a line POQ. Ray OR and ray OT are angle bisectors of $\angle POS$ and $\angle SOQ$, respectively. If $\angle POS = x$, find $\angle ROT$.

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21

NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - SOLVED EXAMPLES - Q 3

In Fig. 6.11, OP, OQ, OR and OS are four rays. Prove that $\angle POQ + \angle QOR + \angle SOR + \angle POS = 360^\circ$

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NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - SOLVED EXAMPLES - Q 4

22

In Fig. 6.24, if
 $PQ \parallel RS$, $\angle MXQ$
 $= 135^\circ$ and
 $\angle MYR = 40^\circ$,
 find $\angle XMY$.

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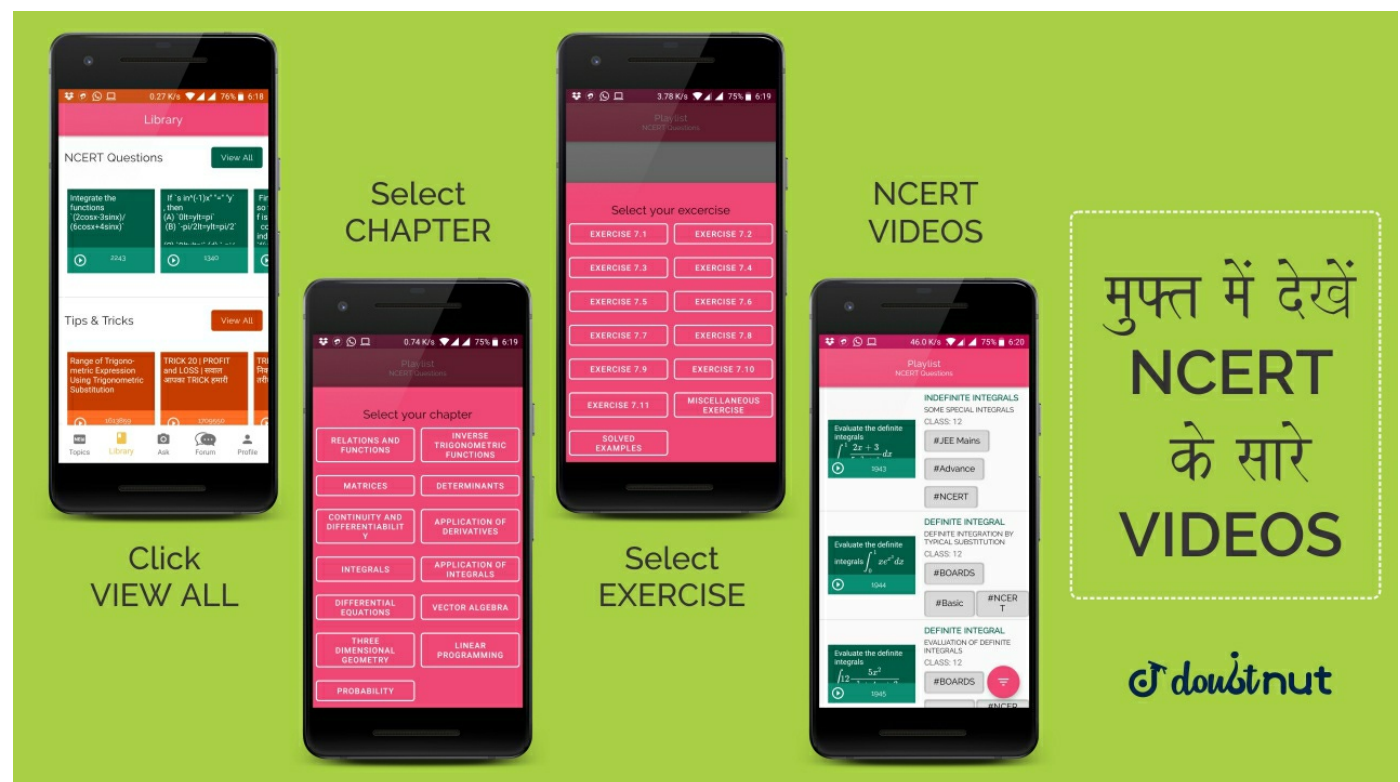
23

NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - SOLVED EXAMPLES - Q 5

If a transversal intersects two lines such that the bisectors of a pair of corresponding angles are parallel, then prove that the two lines are parallel.

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24

NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - SOLVED EXAMPLES - Q 6

In Fig. 6.27, $AB \parallel CD$ and $CD \parallel EF$. Also $EA \perp AB$. If $\angle BEF = 55^\circ$, find the values of x , y and z .

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25

NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - SOLVED EXAMPLES - Q 7

In Fig. 6.37, if
 $QT \perp PR$, $\angle TQR$
 $= 40^\circ$ and $\angle SPR$
 $= 30^\circ$,
 find x and y .

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NCERT - CLASS 9 - CHAPTER 6 LINES AND ANGLES - SOLVED EXAMPLES - Q

In Fig. 6.38, the sides AB and AC of ABC are produced to points E and D respectively. If bisectors BO and CO of CBE and BCD respectively meet at point O, then prove that

$$\angle BOC = 90^\circ - \frac{1}{2} \angle BAC$$

$\angle BAC$

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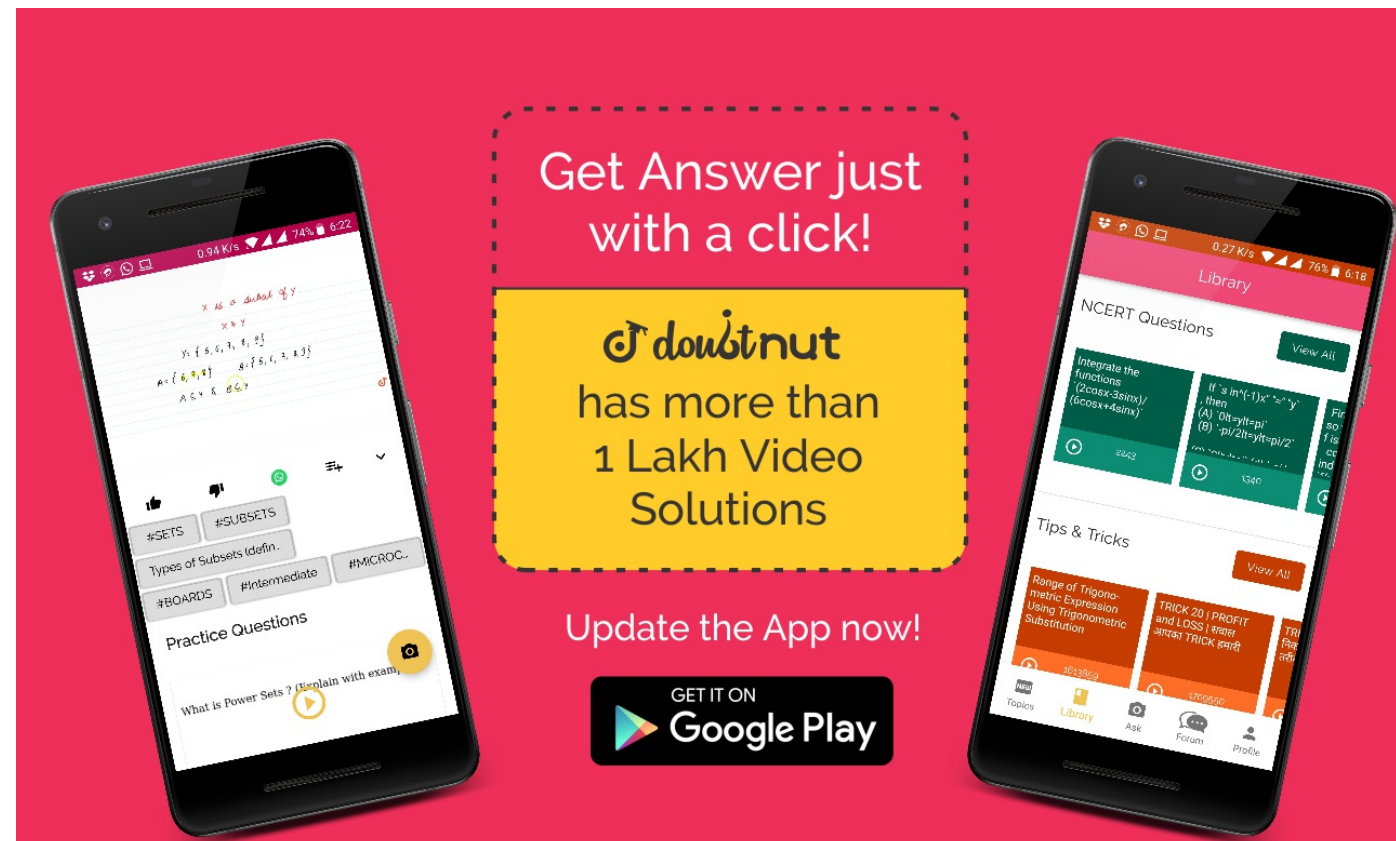
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