























+91 8146207241

Quadratic Equation











n 7 -2.66 < -2.5--2.66 > -5







Q4. I. $20x^2 - 9x + 1 = 0$	20n ² -9n+1=0	$12y^2 - 7y + 1 = 0$ EduTap
II. $12y^2 - 7y + 1 = 0$	-9 1420=20	-7 1712=12
	-4,-5	-3,-4
[1] x > y		4~ 3, Y = 1 1 2
[2] x ≤ y	n= 4, 5	したい いい
[3] x ≥ y	20 20 2.25	25, .33
[4] x < y	= = + + = = = = = = = = = = = = = = = =	
[5] x = y or relationship between x a	nd y can't be established	
	n J	x < y
	·2 4 ·25	
	.25 =	
	.2 L.3 .25 L.3	









n, 7 -82-7 -87-7









Q.6 842-144-15=0 8x+58x+39=0 EduTap $i 8x^2 + 58x + 39 = 0$ -15×8 120 ii $8y^2 - 14y - 15 = 0$ 58 [A] If x < y -20 +6 52 [B] If x > y[C] If $x \ge y$ カン [D] If $x \leq y$ ncy [E] If x = y or no relation can be established. れらる n=7 nL





































Q12. Select the correct match given in the options.

Equations	Conditions	
a). $8x^2 - 78x + 169 = 0$ (+1+)	d). Difference of roots is 7	
b). $2x^2 + 11x + 14 = 0$	e). Product of both root value is negative	
c). X ² -19x+78=0	f). Both roots are negative values	
A. a-f, a-e X B. c-d, b-e, a-f X		
C c-d, b-f		
D. c-t, a-d E. b-d, c-f		

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 $n^{2}-9n+78$ -19 78 -13, -6







Q.13 The following equation must satisfy the condition (: (y < x))



Match the column accordingly

\sim	して
Column – I	Column – II
A) $x^2 + 21x + 108 = 0$	D) y ² + 27y + 180 = 0
B) $x^2 - 3x - 28 = 0$	E) $y^2 - 42y + 440 = 0$
C) $x^2 - 28x + 171 = 0$	F) $y^2 - 2y - 35 = 0$
[1] C-D, C-F	
[2] A-F, A-E, B-E	
[3] Only A-E	
[4] A-E, C-E 🌱	
[5] A-D, B-E	







- Q.14 5x 2y = 5 and 1 + (x/y) = 8/5. Quantity I: Value of 3x + y? $\rightarrow 3 \times 3 + 5 = 19$ Quantity II: Value of 3y - x? $\rightarrow 3 \times 5 - 3 = 12$
- A. Quantity I >Quantity II
- B. Quantity I < Quantity II
- C. Quantity $I \leq Quantity II$
- D. Quantity I=quantity II or No relation
- E. Quantity $I \ge Quantity II$



















In the following questions three equations are given in variables x. Third equation is equal to the sum of the first two equations. You have to solve the questions based on given information.







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In the following questions an equation followed by some information is given. You have to choose best suitable option.

 $x^2 - 28x + k = 0$

Root of the equation are a and b.

Here, $a^2 = 9b$ and a, b > 0.

Q21. Find the equation whose roots are 1/a and 1/b.

```
A. 192x^2 + 28x + 1 = 0
```

```
B. 192x^2 - 28x + 1 = 0
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C. $192x^2 + 28x - 1 = 0$

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D. 192x^2 - 28x - 1 = 0
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E. None of these











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