



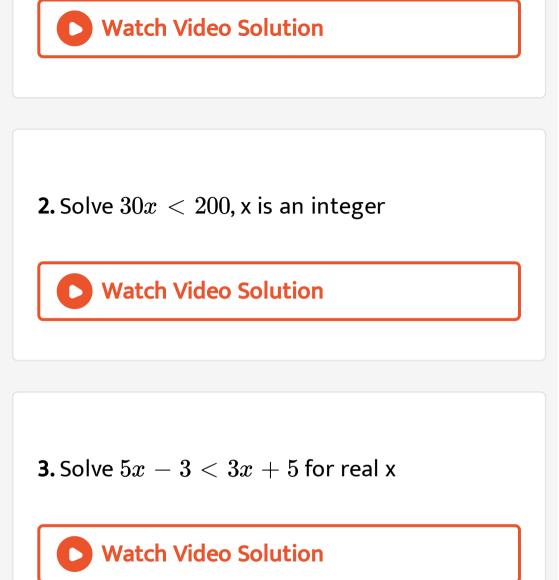
## MATHS

# BOOKS - JEEVITH PUBLICATIONS MATHS (KANNADA ENGLISH)

## LINEAR INEQUALITY

**Two Marks Questions With Answer** 

**1.** Solve 30x < 200, when (i) is x a natural number



4. Solve -12x > 30, when (i) is a natural

number

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5. Solve -12x > 30, x is an integer.

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**6.** Solve 5x-3 < 7 when , x is an integer

#### 7. Solve 5x - 3 < 7 when , x is real number



8. Solve 
$$rac{5-2x}{3} \leq rac{x}{6} - 10$$

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9. 
$$|7x - 2| \le 11$$

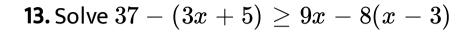
#### 10. Solve 4x + 3 < 6x + 7



11. Solve 
$$\displaystyle rac{3(x-2)}{5} \leq \displaystyle rac{5(2-x)}{3}$$

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12. Solve 
$$\displaystyle rac{1}{2} igg( rac{3x}{5} + 4 igg) \geq \displaystyle rac{1}{3} (x-6)$$





14. Solve 
$$\displaystyle rac{x+8}{x-2} > 2$$

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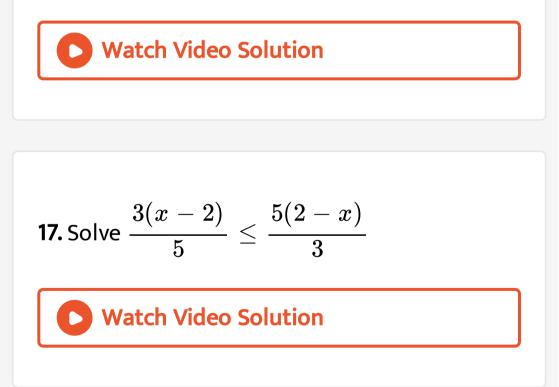
15. Solve 5x - 3 > 3x - 5 and show the graph

of the solution on a number line.



16. Solve 
$$3(1-x) < 2(x+4)$$
 and show the

graph of the solution on number line.



#### **18.** Solve 7x + 3 < 5x + 9. Show the graph of

the solution on number line.

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**19.** Find all pairs of consecutive odd numbers, both of which are larger such that their sum is less than 40.

**20.** Ravi obtained 70 and 75 marks in first two unit tests. Find the minimum number should get in the third test to have an average of at least 60 marks.

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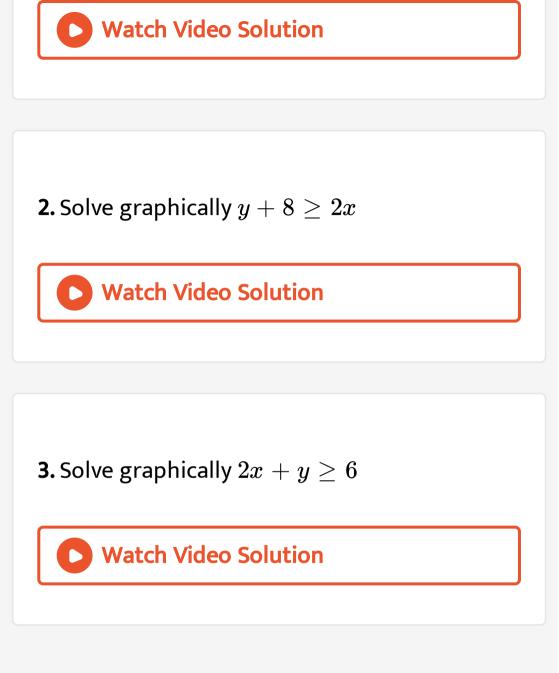
**21.** Find all pairs of consecutive odd numbers, both of which are smaller such that their sum is more than 11.

**22.** The longest side of a triangle is 3 times the shortest side and the third side is 2 cm shorter than the longest side. If the perimeter of the triangle is at least 61 cm, find the minimum length of the shortest side.



**Three Marks Questions With Answer** 

**1.** Solve graphically  $2x+y\geq 6$ 

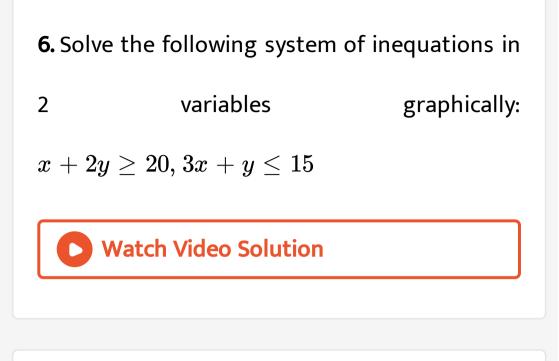


4. Solve graphically the inequation x + 2y - 4 < 0

5. Solve the system of inequalities

$$3x - 7 < x + 5$$

 $11-5x \leq 1$ 



7. Solve the following system of inequations in

2 variables gra

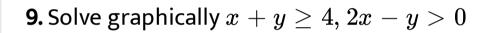
graphically:

 $x-y\leq 2, 2x+y\leq 6, x\geq 0, y\geq 0$ 



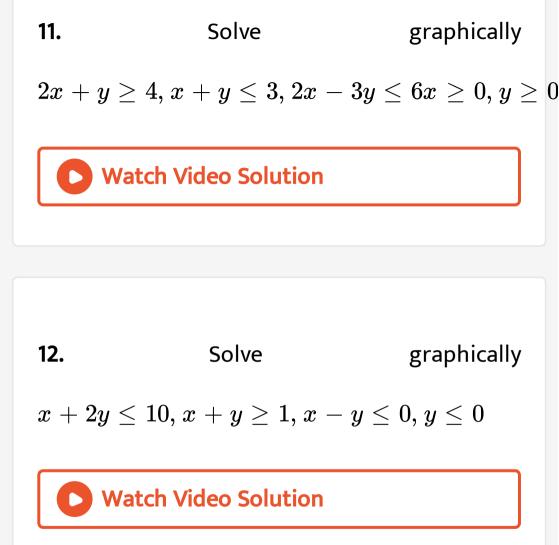
 $3x+2y\leq 12, x\geq 1, y\geq 2$ 

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10. Solve graphically  $x+y < 9, y \geq x, x \geq 0$ 



## $x+2y\leq 10, x+y\geq 1, x-y\leq 0, y\leq 0$