# 4.2.4 - Simultaneous Equations I

4.2 - Algebra - Solving Equations

Leaving Certificate Mathematics

Ordinary Level & Higher Level





**Q.** Find the intersection point (x, y) of:

$$9x - 8y = 3$$
$$6x - 5y = 0$$

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Answer:

$$9x - 8y = 3$$
  

$$6x - 5y = 0$$
  

$$18x - 16y = 6$$

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$$0x - y = 6$$
  

$$\therefore y = -6$$

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$$y = -6$$
 into A.

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$$\therefore 9x - 8(-6) = 3$$

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$$9x - 8y = 3$$
  
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Sub 
$$y = -6$$
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$$\therefore 9x - 8(-6) = 3$$
  
 $9x + 48 = 3$ 

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Sub 
$$y = -6$$
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$$\therefore 9x - 8(-6) = 3$$
  
 $9x + 48 = 3$   
 $9x = -45$ 

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$$6x - 5y = 0$$

Answer:

Sub 
$$y = -6$$
 into A.

∴ 
$$9x - 8(-6) = 3$$
  
 $9x + 48 = 3$   
 $9x = -45$   
 $x = -5$ 

$$\therefore$$
 Intersection point  $(x, y) = (-5, -6)$ 

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