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## Arithmetic Progression - Working with consecutive terms

An arithmetic progression has three consecutive terms  $6x+1$ ,  $7x-1$  and  $9x-8$ .  
What are the three consecutive terms?

$$\dots, 6x+1, 7x-1, 9x-8, \dots$$

$\xrightarrow{+d}$        $\xrightarrow{+d}$

$$\therefore 9x-8 - (7x-1) = 7x-1 - (6x+1) = d$$

$$\therefore 9x-8-7x+1 = 7x-1-6x-1$$

$$\therefore 2x-7 = x-2$$

$$\therefore x = 5$$

$\therefore$  The terms are : 31, 34, 37



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