

① let Anis age =  $x$  years  
 Bijus age =  $y$  years

acc to condition I

$$x - y = 3 \dots \textcircled{i}$$

$$x - y = -3 \dots \textcircled{ii}$$

dharams age =  $2x$  years

cathys age =  $\frac{y}{2}$  years

acc to condition II

$$2x - \frac{y}{2} = 30$$

$$(x2) 4x - y = 60 \dots \textcircled{iii}$$

$$\textcircled{i} - \textcircled{ii}$$

$$x - y = 3$$

$$4x - y = 60$$

$$\begin{array}{r} - \\ + \\ \hline -3x = -57 \end{array}$$

$$\Rightarrow x = \frac{-57}{-3}$$

$$= 19$$

Sub ①

$$29 - y = 3$$

$$y = 16$$

$\therefore$  Anis age = 19 years

Bijus age = 16 years

$$\textcircled{ii} - \textcircled{iii}$$

$$x - y = -3$$

$$4x - y = 60$$

$$\begin{array}{r} - \\ + \\ \hline -3x = -63 \end{array}$$

$$\Rightarrow x = \frac{63}{3}$$

$$= 21$$

Sub ①

$$21 - y = -3$$

$$y = 24$$

$\therefore$  Anis age = 21 years

Bijus age = 24 years