Assignment 3

Q1
$$x+\beta=2\alpha\beta$$

$$ax^2+bx+c=0$$
Sum of noots = -b

Anduct of roots = c
$$-\frac{b}{\alpha} = 2c$$

$$b=-2c$$

$$x^2-2x+1=0$$

$$(2)^{2}$$
 $22+3y=12$ $(2,3)$ $2+2+3+3=12$ $4+9=12$ $13 \neq 12$ 30 $(2,3)$ is not a

$$\frac{34}{a^3-b^3} = \frac{7}{7} - 0$$
Cross - Multiply

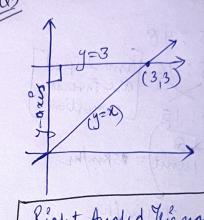
$$a^{3} + b^{3} = a^{3} - b^{3}$$
Add b^{3} to both side

 $a^{3} + b^{3} + b^{3} = a^{3} - b^{3} + b^{3}$
 $a^{3} + 2b^{3} = a^{3}$
 $a^{3} + 2b^{3} = a^{3}$
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Substitute $b = 0$ in eq. (1)

 $a^{3} + 0 = \frac{1}{3}$
 $a^{3} = \frac{1}{3}$

a can have any real number except 0, and 6 can have only value 0.



Right Angled Thangle.