

FACTOR / गुणनखंड

$$\rightarrow (a+b)^2 = a^2 + 2ab + b^2$$

$$\rightarrow (a-b)^2 = a^2 - 2ab + b^2$$

$$\rightarrow (a+b)^2 + (a-b)^2 = 2(a^2 + b^2)$$

$$\rightarrow (a+b)^2 - (a-b)^2 = 4ab$$

$$\Downarrow$$

$$\frac{(a+b)^2 + (a-b)^2}{(a^2 + b^2)} = 2$$

$$\Downarrow$$

$$\frac{(a+b)^2 - (a-b)^2}{4ab} = 1$$

$$\rightarrow a^2 + b^2 + ab \Rightarrow \textcircled{1} (a+b)^2 - ab$$

$$\rightarrow a^2 + b^2 - ab \Rightarrow \textcircled{1} (a+b)^2 - 3ab$$

$$\Rightarrow \textcircled{2} (a-b)^2 + 3ab$$

$$\Rightarrow \textcircled{2} (a-b)^2 + ab$$

$$\Rightarrow \textcircled{3} \frac{a^3 - b^3}{(a-b)}$$

$$\Rightarrow \textcircled{3} \frac{a^3 + b^3}{(a+b)}$$

Algebra Notes For Ssc Cgl

Karin Nielsen-Saines



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to describe the input and output ports of this circuit 1 entity circuit 1 is 2 port a in std logic 3 b in std logic 4 out1 out std logic 5 end circuit 1

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