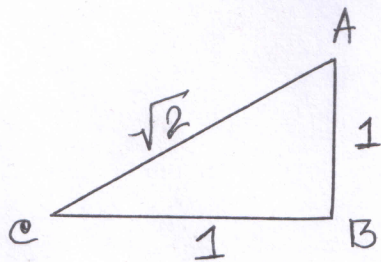
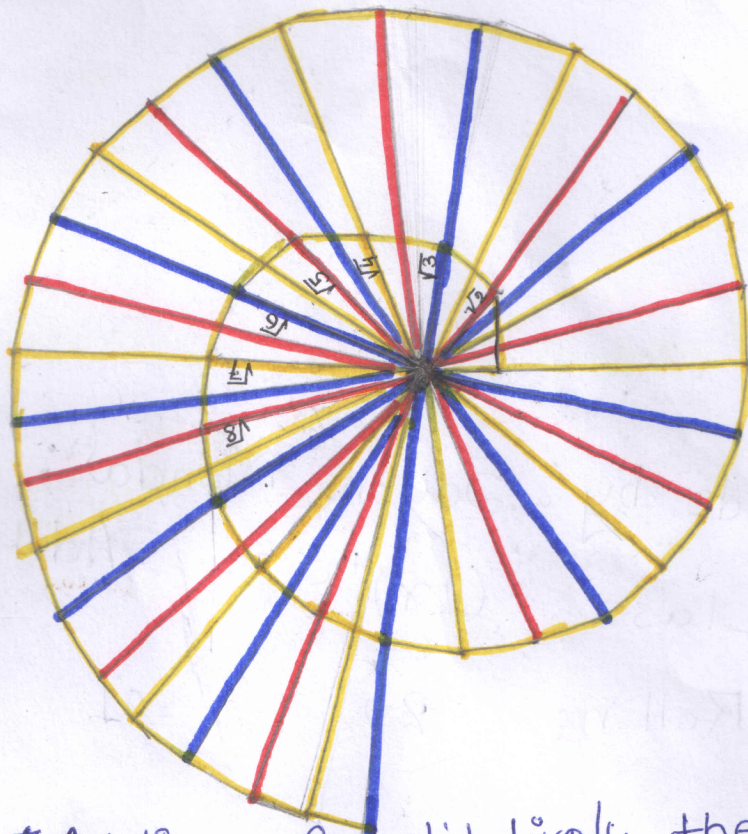


Project-Worksheet

Representing Irrational Numbers



★ Adding Substitutively the right triangles we get successively $\sqrt{2}, \sqrt{3}, \sqrt{4}, \dots, \sqrt{\infty}$

∴ Prove ∴
we know, that acc. to Pythagoras theorem ∴

$$AC = \sqrt{AB^2 + CB^2}$$

$$AC = \sqrt{2} = \sqrt{1+1}$$

$$= \sqrt{1^2 + 1^2}$$

$$AB^2 = 1^2; AB = 1$$

$$CB^2 = 1^2; CB = 1$$

And, thus $\sqrt{AB^2 + AC^2} = \sqrt{2} \dots \dots \dots$