$$(1/0)$$

$$= \frac{0 + (1) \cos 0}{0 - (1) (0)} = \frac{1}{0} \quad \text{underhed} \quad \text{apain is roball }$$

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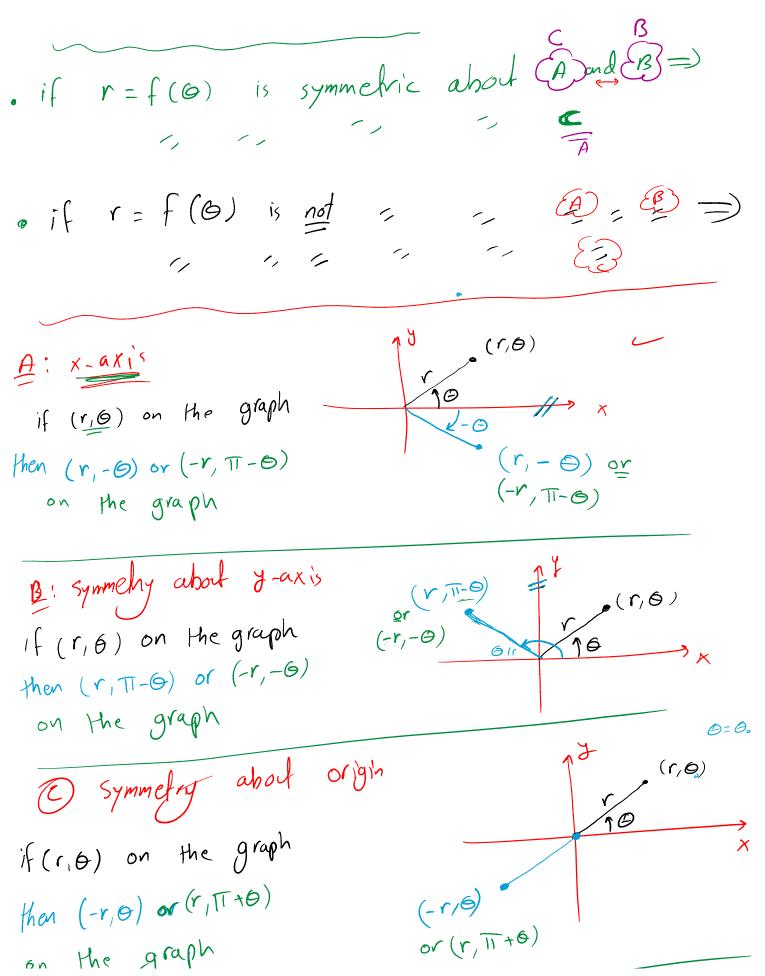
$$0 + (1) \cos 0 \quad \text{underhed} \quad \text{apain is roball }$$

$$0 + (1/0) = (-1/\frac{11}{2})$$

To draw $r = f(\Theta) = jil$ is important to

Know the symmetry

Origin y = axis



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---> Identify the symmetry

substitu -6 =) 1+ sin(-6) = 1-sin6

+ r

substitue II-0 => 1+ sin(II-0) B=-6

= 1+ SinT (05(-6) + 3in(-6) COSTI

-1+ 0 0 1 3 m

±-r

sunshill - 0 => 1+ sin (-6)

=1-sin@

- r

Subshlu TT-0 => 1+ Sin(T-6)

= 1+ Sin T (05(-0) + sin (-0) COSTT

= 1+0+ sin 0

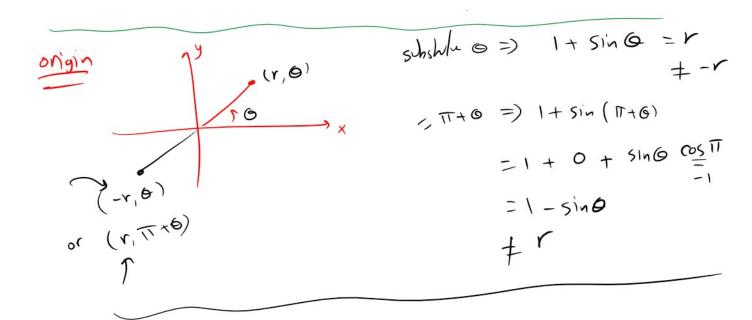
= ~

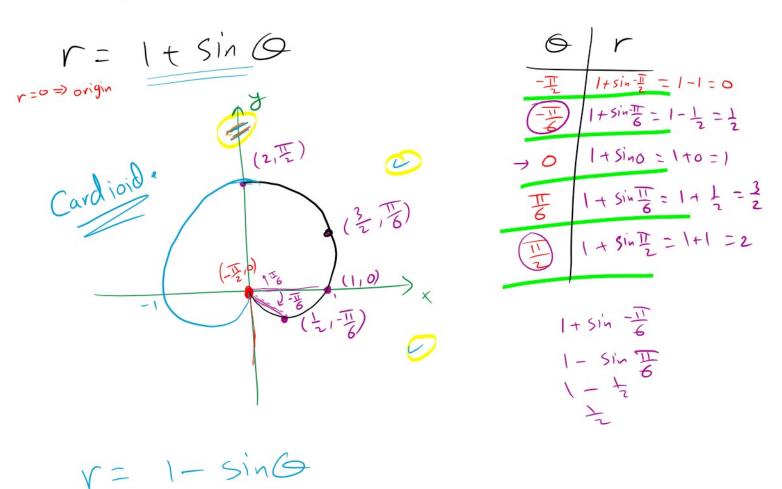
Hence, r=1+sin6 is symmetric about y-axis

whshlu 0 => 1+ Sin 0 = r

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Cardioid

