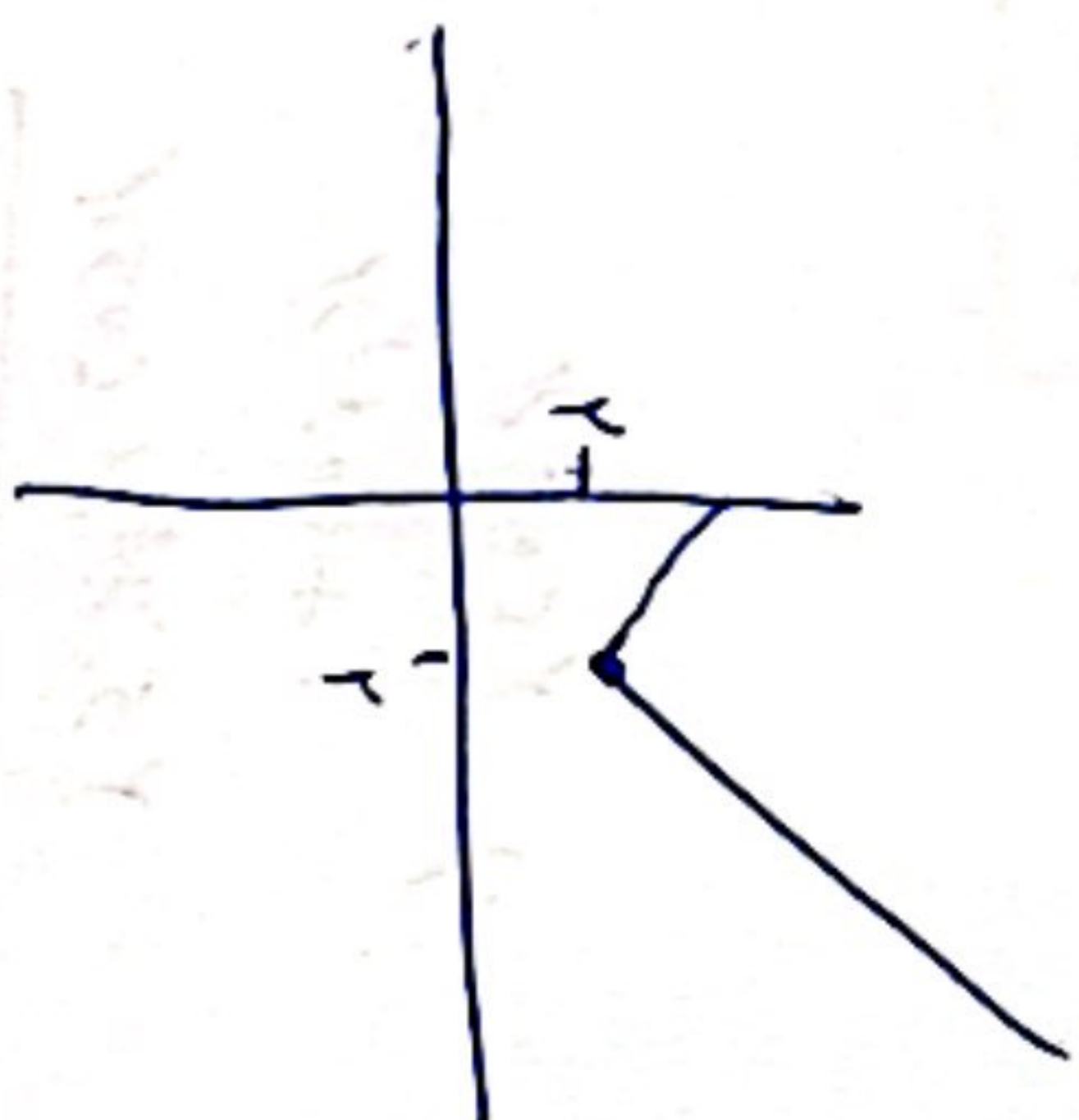


رنگین شماره ۷

$$y = x + |x - r|$$

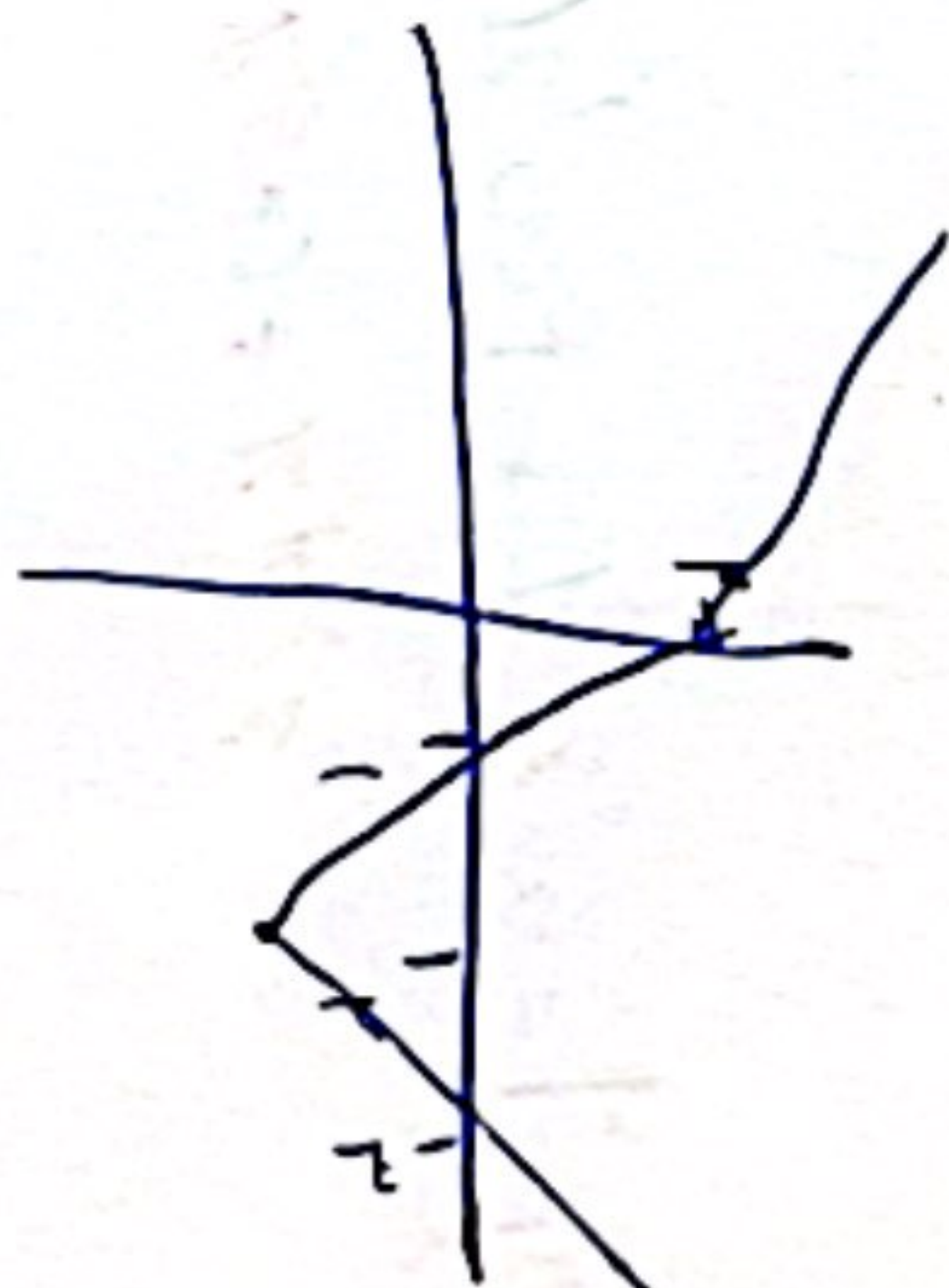
$$\frac{-x+r}{r} \quad | \quad x-r$$



این حالت C

$$y = |x - r| + |x - -1| - |x|$$

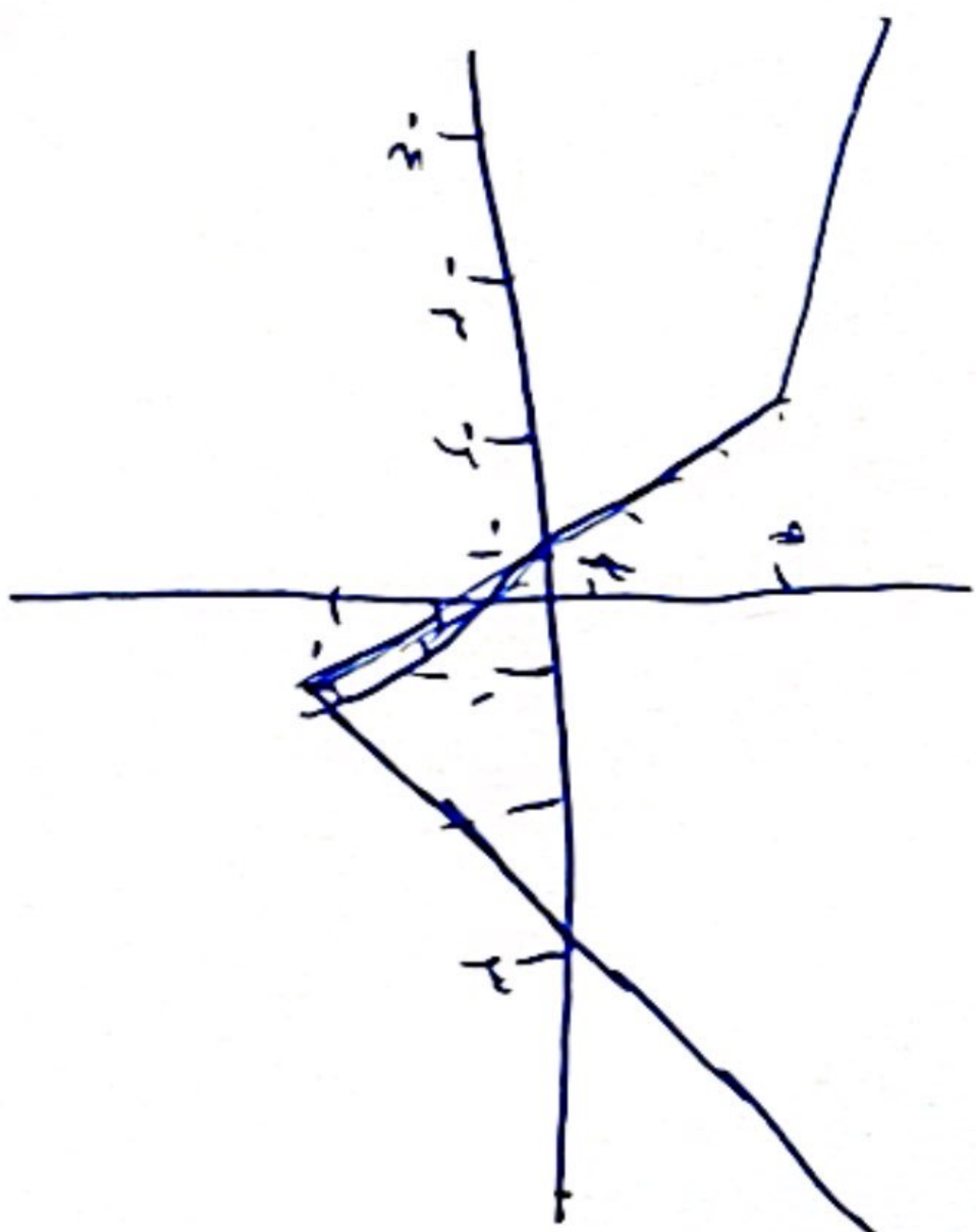
$$\frac{-x+r}{-x+r} \quad | \quad -x+r \quad | \quad x-r$$



①

$$y = |x - r| - |x + r| = x$$

$$\frac{-x+r}{-x+r} \quad | \quad -x+r \quad | \quad x-r$$



$$k = -r$$

②

دج

دج

الف) $y = r^3 \sin \theta + r \cos \theta$ $R = [-\sqrt{14}, \sqrt{14}]$

ج) ؟

ب) ؟

ج) ؟

$$1) y = \sin^2 x + r \sin x + r$$

$$\frac{-b}{2a} = -\frac{r}{2} \quad \boxed{-\frac{1}{2} > 0 > y}$$

$$R = \left[-\frac{1}{2}, 0, y\right]$$

$$1) y = \sin^2 x + f \cos^2 x \Rightarrow$$

$$\sin^2 x + \cos^2 x + r \cos^2 x \Rightarrow 1 + r \cos^2 x$$

$$R = [1, f]$$

$$\therefore y = r \sin^2 x + r \sin x + r$$

$$\boxed{\frac{r}{2} > 0 > y}$$

$$R = \left[\frac{r}{2}, 0, y\right]$$

$$\therefore \frac{r \cos^2 x}{1 + \cos^2 x} = \frac{\frac{r \cos^2 x}{\sin^2 x}}{\frac{1}{\sin^2 x}} \Rightarrow$$

$$\frac{r \cancel{\sin^2 x} \cos^2 x}{\cancel{\sin^2 x}} = r \sin^2 x \cos^2 x = \sin^2 x$$

$$R = [-1, 1]$$

