

$$1) \sqrt[4]{x^2 - 8x}$$

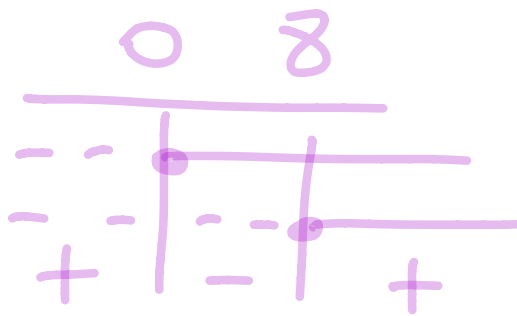
$$-x - 2$$

$$\begin{cases} x^2 - 8x \geq 0 \\ -x - 2 \neq 0 \end{cases}$$

$$a) x^2 - 8x \geq 0 ; \underline{x(x-8) \geq 0}$$

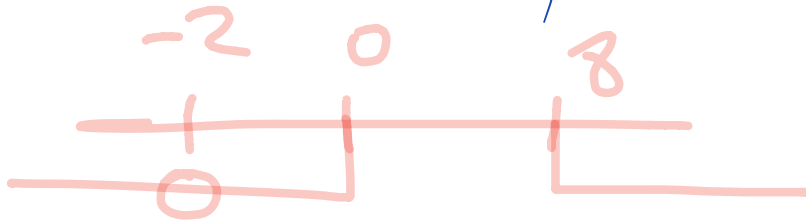
$$\text{I) } x \geq 0$$

$$\text{II) } x \geq 8$$



$$\underline{x \leq 0 \vee x \geq 8}$$

$$b) -x - 2 \neq 0 ; \underline{x \neq -2}$$



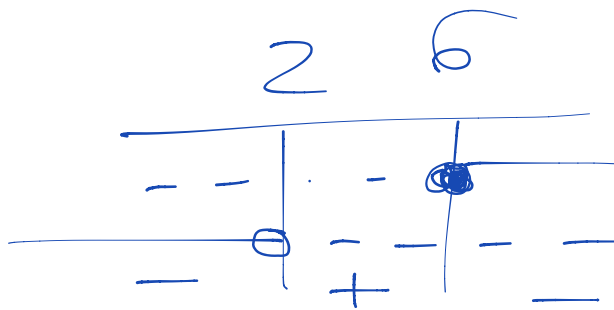
$$D.E. = (-\infty, -2) \cup (-2, 0] \cup [8, +\infty)$$

$$2) \sqrt{\frac{x-6}{2-x}}$$

$$\frac{x-6}{2-x} \geq 0$$

$$N \geq 0 \quad x-6 \geq 0; \quad x \geq 6$$

$$D > 0 \quad 2-x > 0; \quad x < 2$$



$$D.E. = (2, 6]$$

$$3) \sqrt{\frac{10-5x}{x+6}} - \sqrt{-1-x}$$