

Уравнения фигур

9 "А" класс

Николаев Сергей

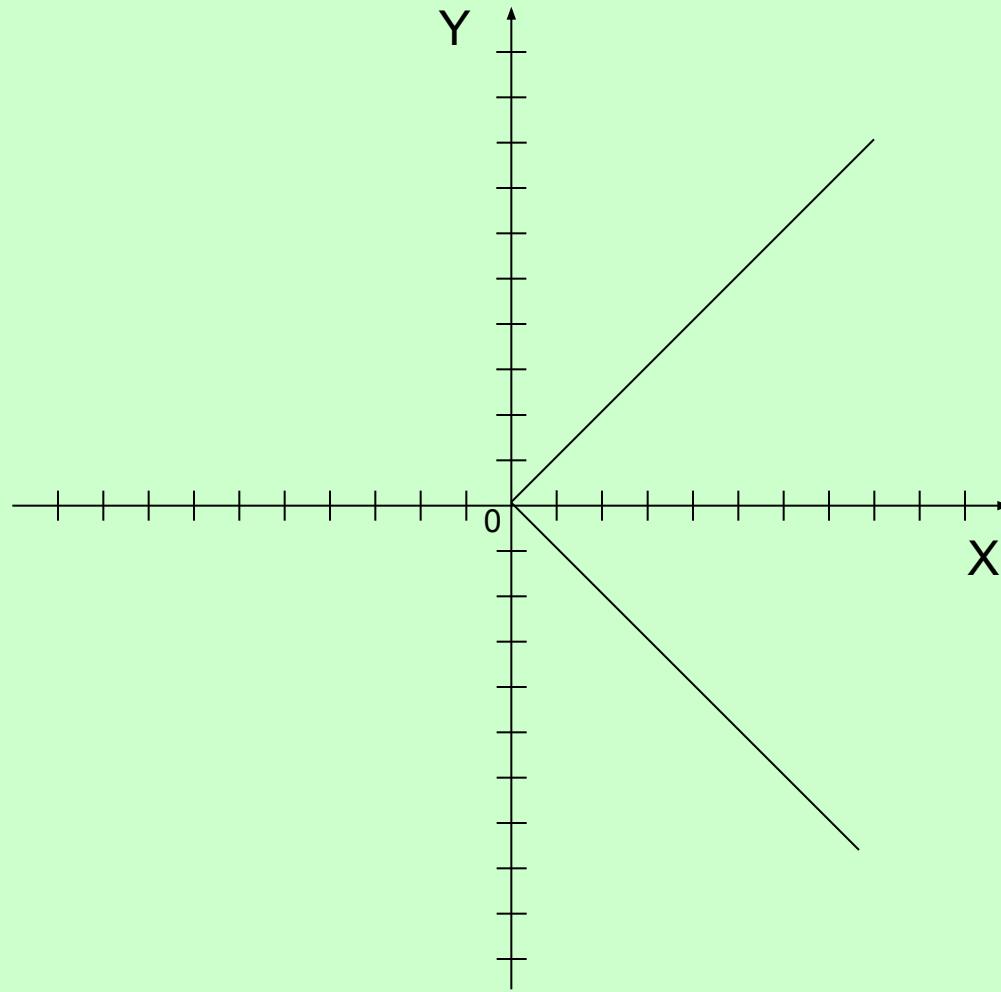
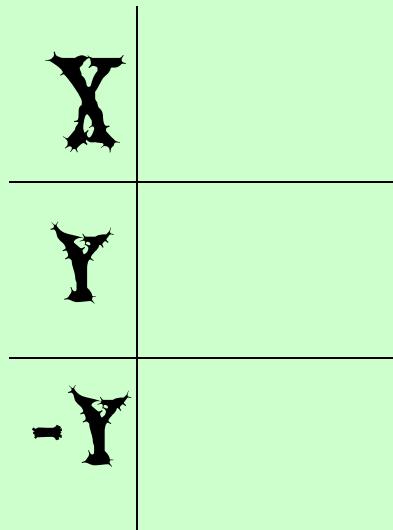
Миронов Илья

Стряхова Арина

$$|Y|=X$$

$$D(y) = [0; +\infty)$$

I) $|Y|=X$

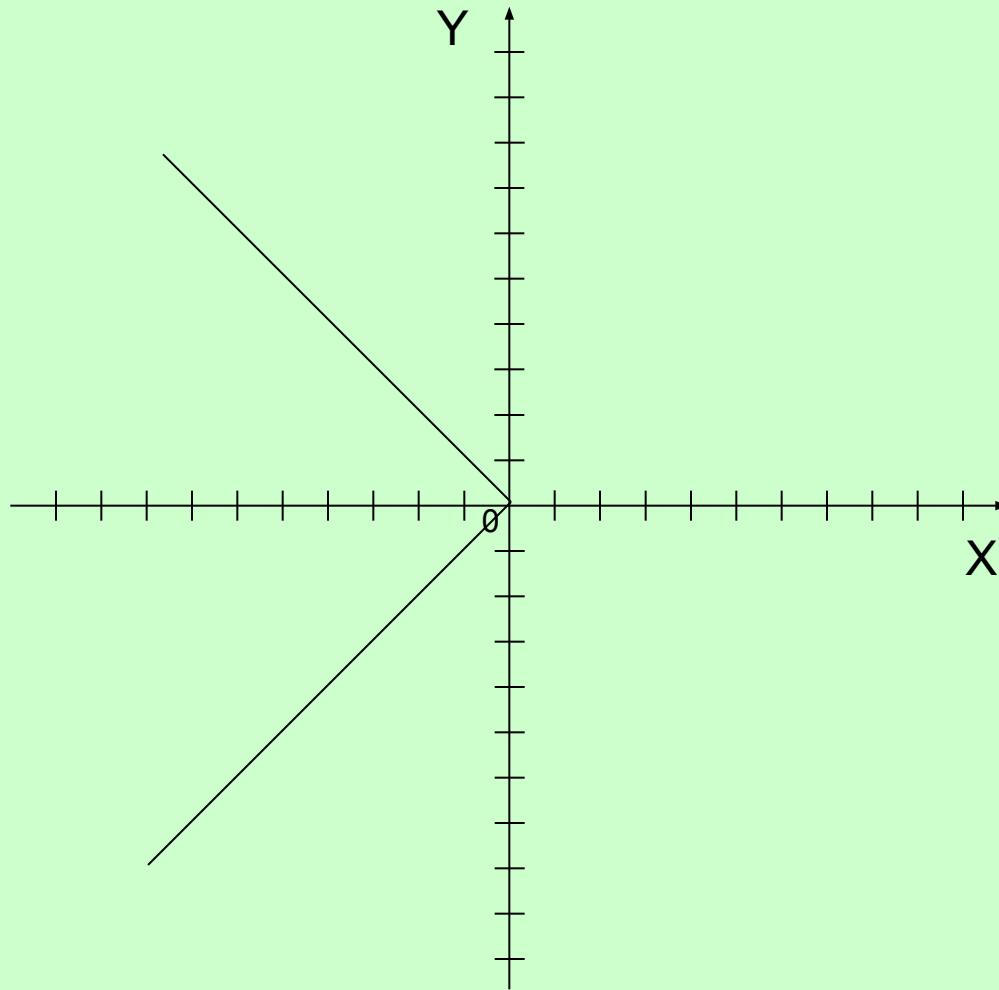


$$|Y| = X$$

$$D(y) = (-\infty; 0]$$

$$1) Y = -X$$

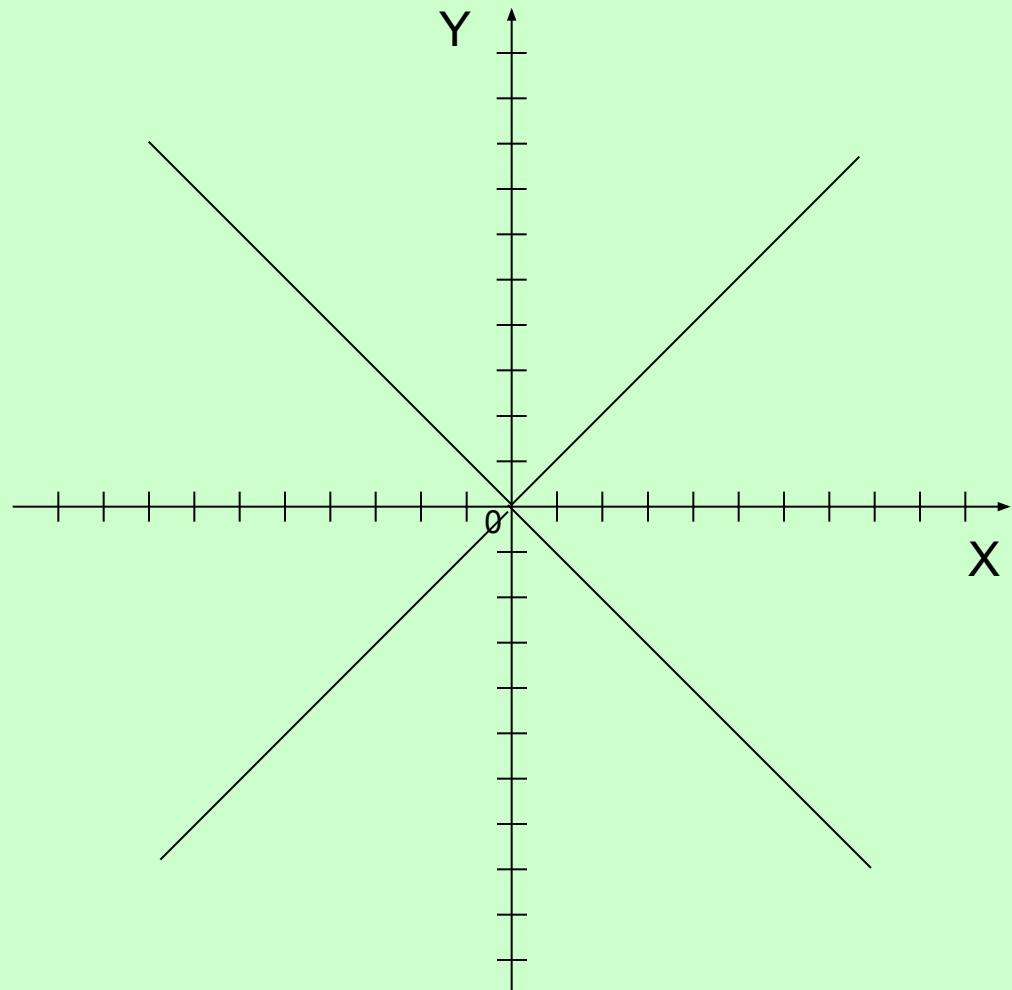
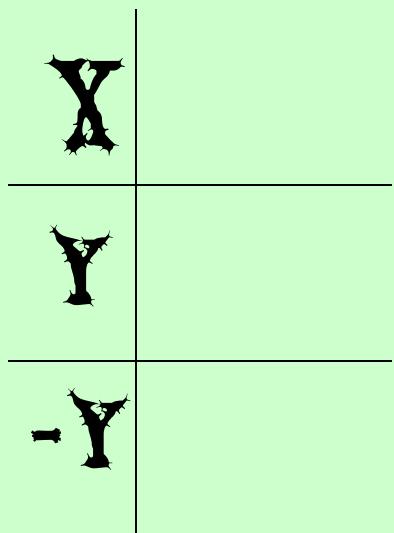
A Cartesian coordinate system with a horizontal x-axis and a vertical y-axis. The origin is marked with a small circle containing the letter '0'. The x-axis is labeled 'X' at its right end, and the y-axis is labeled 'Y' at its top end. There are tick marks on both axes. A straight line is drawn passing through the origin, extending downwards and to the left. The equation $Y = -X$ is written above the line.



$$|Y|=|X|$$

$$Y=|X|$$

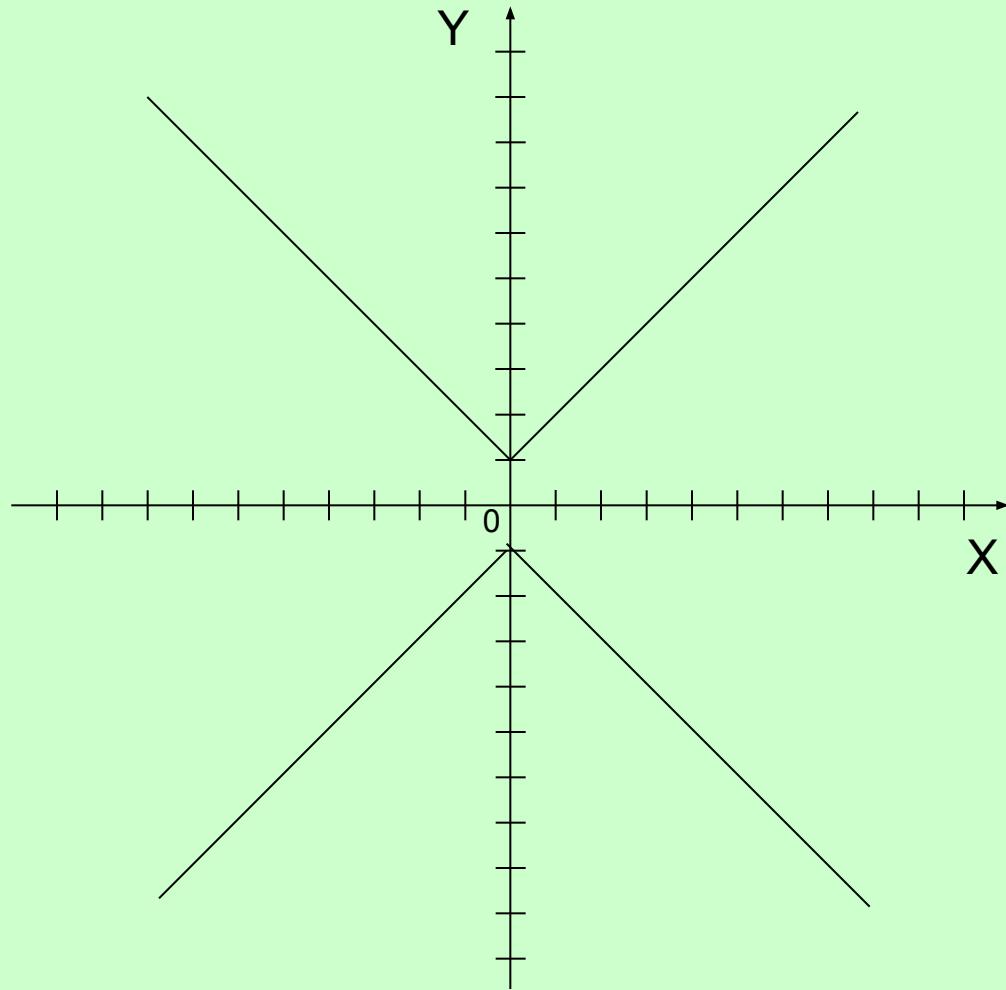
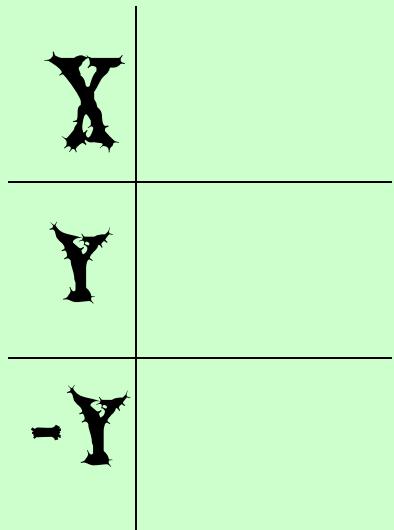
$$D(y)=(-\infty; +\infty)$$



$$|Y|=|X|+1$$

$$Y=|X|+1$$

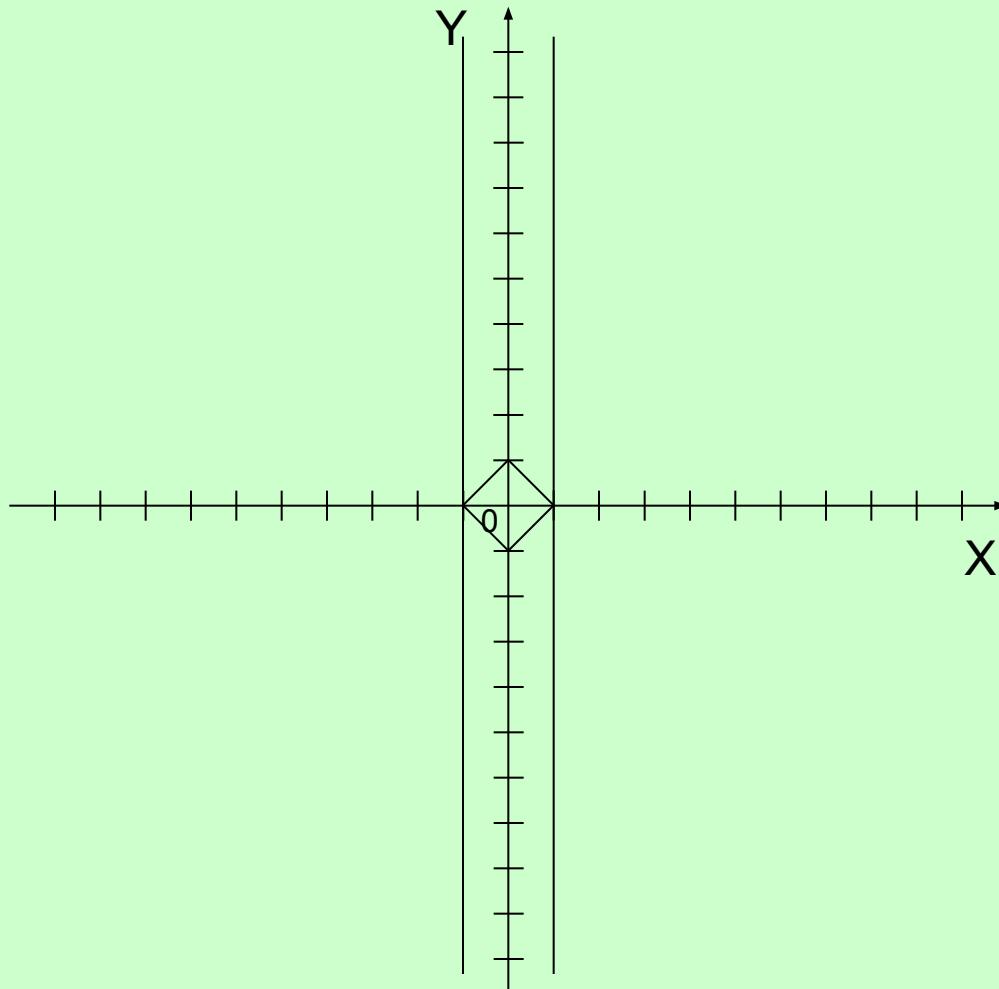
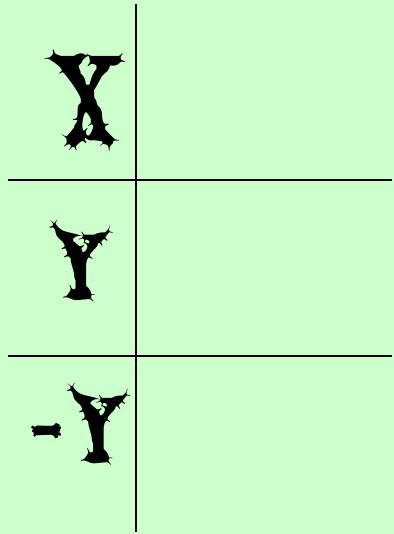
$$D(y)=(-\infty; +\infty)$$



$$|Y|=1-|X|$$

$$1-|X| \geq 0$$

$$-1 \leq X \leq 1$$



$$|Y|=|X|-2$$

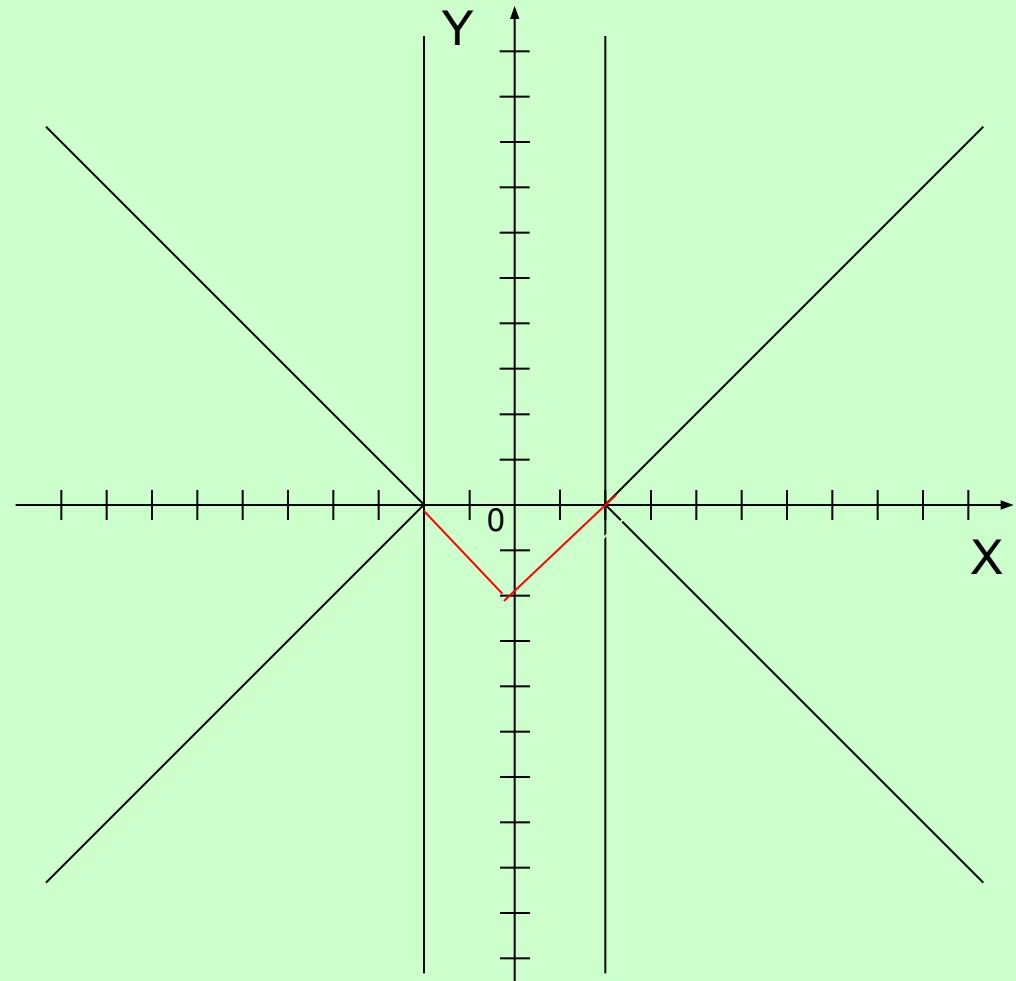
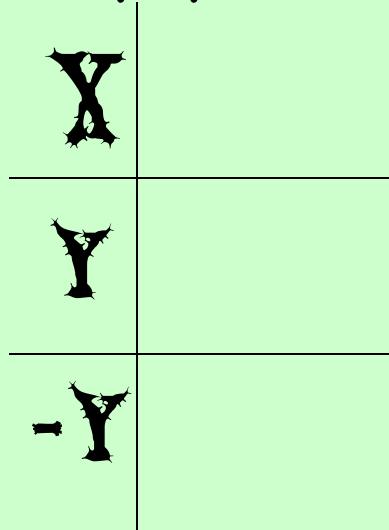
$|Y|$ -неотрицательное
число

$$|X|-2 \geq 0$$

$$|X| \geq 2$$

$$D(y)=(-\infty; -2); (2; +\infty)$$

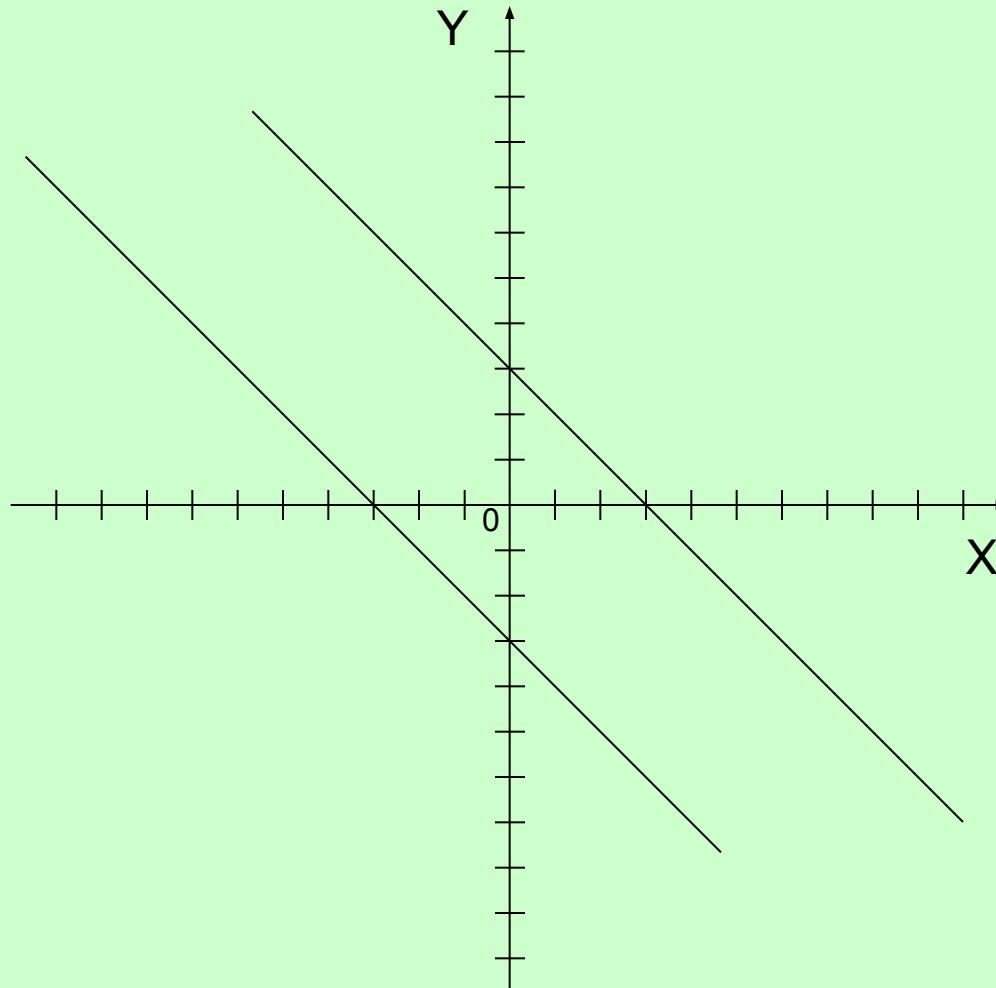
$$Y=|X|-2$$



$$|Y+X|=3$$

$$\begin{cases} X+Y=3 \\ X+Y=-3 \end{cases}$$

$$\begin{cases} Y=3-X \\ Y=-3-X \end{cases}$$

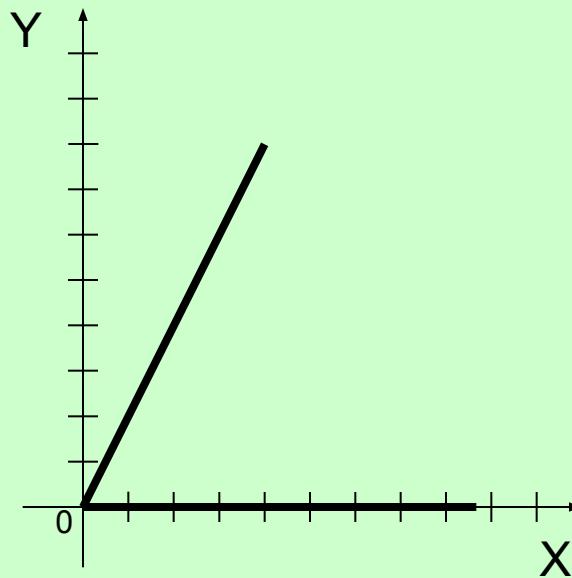


$$|Y-X|=X$$

$$X \geq 0$$

$$\begin{cases} Y - X = X \\ Y - X = -X \end{cases}$$

$$\begin{cases} Y = 2X \\ Y = 0 \end{cases}$$



$$||X|-|Y||=1$$

$$(2) |Y| = |X| + 1$$

$$|X| + 1 \geq 0$$

$$|X| \geq -1 \quad D(y) = (-\infty; +\infty)$$

$$\begin{cases} |X| - |Y| = 1 \\ |X| - |Y| = -1 \end{cases}$$

$$\begin{cases} |Y| = |X| - 1 & (1) \\ |Y| = |X| + 1 & (2) \end{cases}$$

$$(1) \quad |Y| = |X| - 1$$

$$|X| - 1 \geq 0$$

$$|X| \geq 1 \quad D(y) = (-\infty; -1) \cup (1; +\infty)$$

