

CH 8-3 Graphing Linear Equations

Linear Equation -
is an equation for
which the Graph
is a Line

STANDARD LINEAR Equation

$$Ax + By = C$$

Where A, B + C are
real numbers.

A + B are not =
zero.

$$x = 12 - 2y$$

$$x + 2y = 12 - 2y + 2y$$

$$1x + 2y = 12$$

ISOLATE "y"

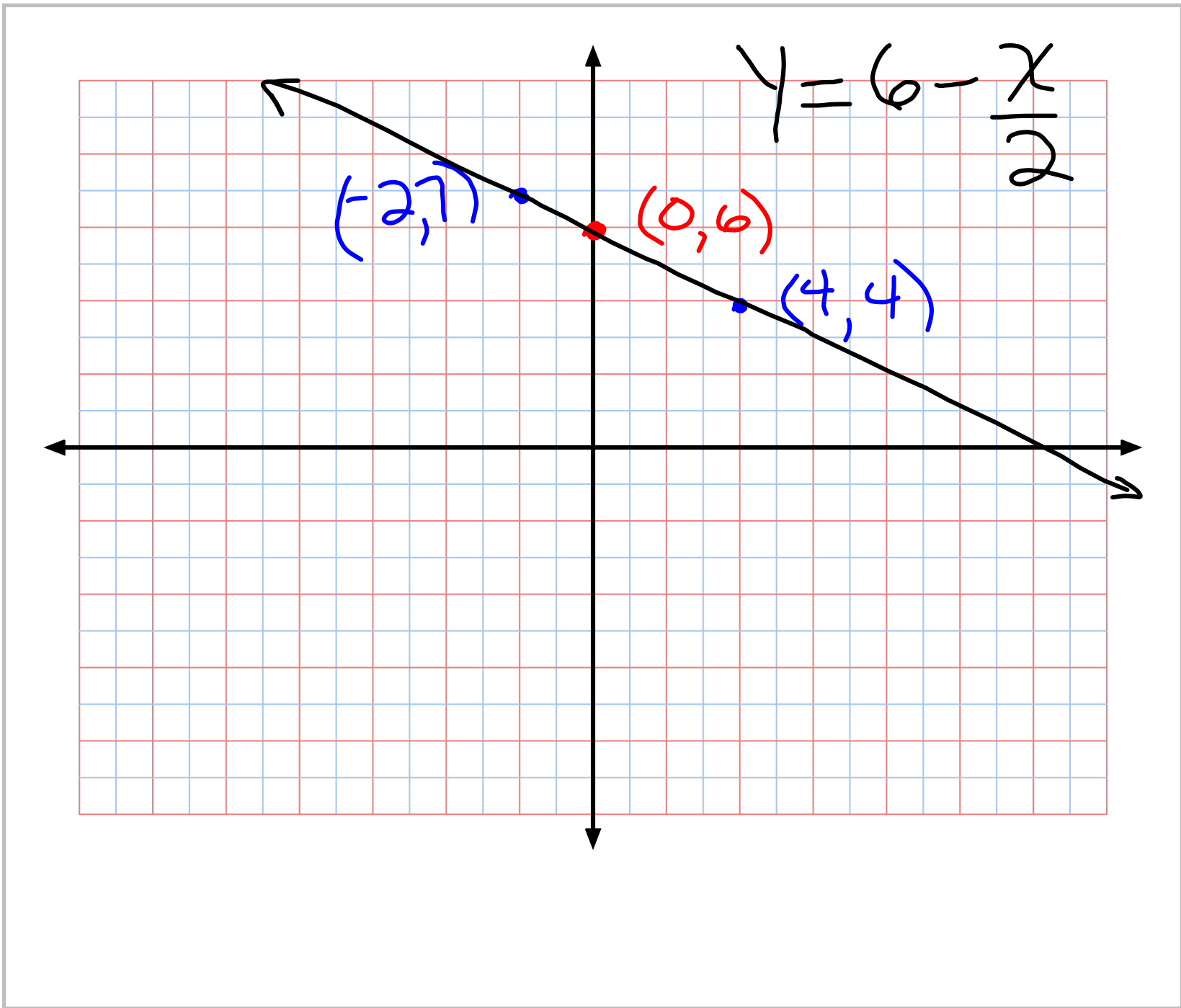
$$1x + 2y = 12$$

$$1x - 1x + 2y = 12 - 1x$$

$$\frac{2y}{2} = \frac{12 - x}{2}$$

$$y = 6 - \frac{x}{2}$$

x	y	(x, y)
-2	7	(-2, 7)
0	6	(0, 6)
4	4	(4, 4)



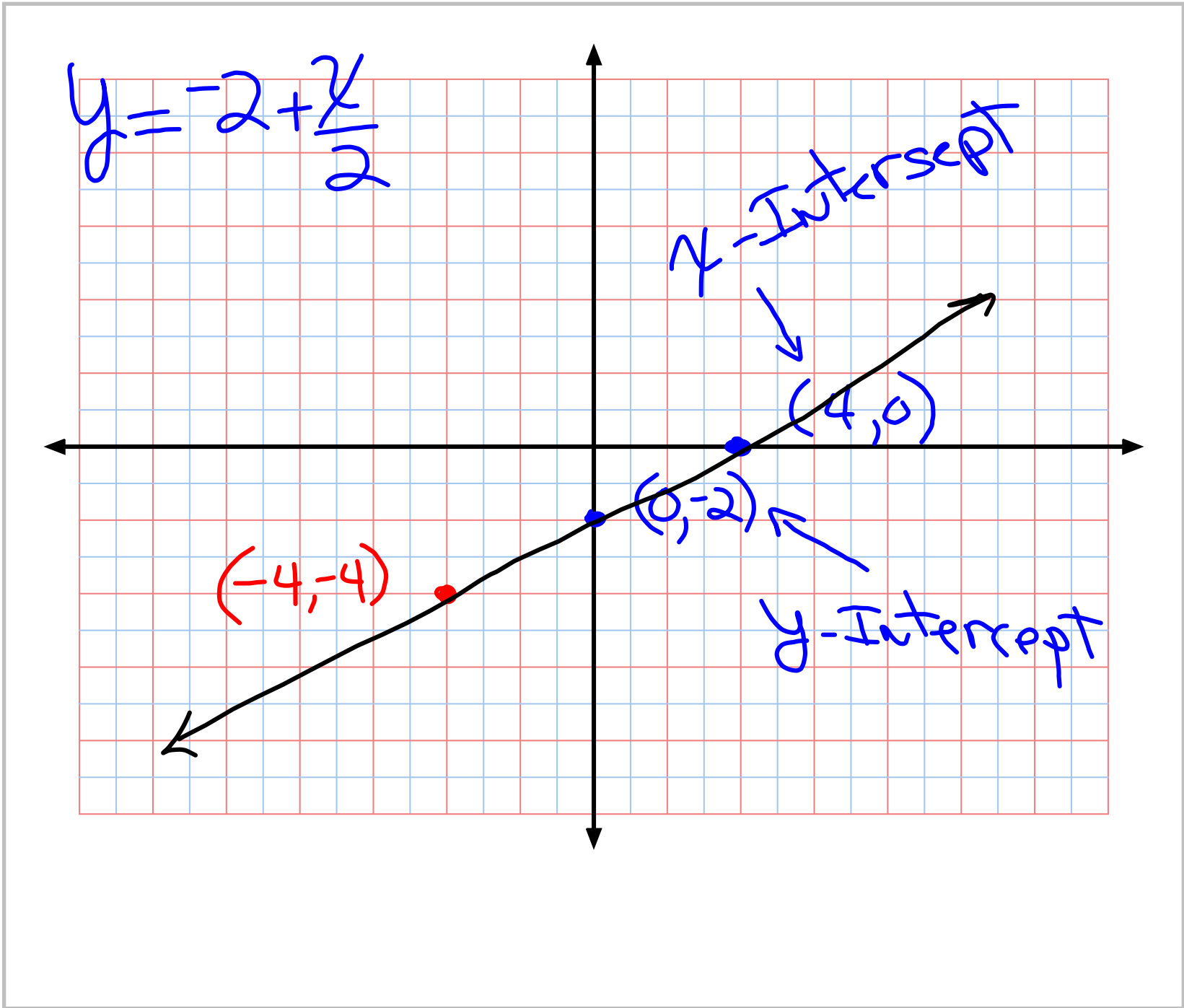
$$x + 2y = 4$$

$$x - x + 2y = 4 - x$$

$$\frac{-2y}{-2} = \frac{4 - x}{-2}$$

$$y = -2 + \frac{x}{2}$$

x	y	(x, y)
-4	-4	$(-4, -4)$
0	-2	$(0, -2)$
4	0	$(4, 0)$



Title: XY axis - medium (5 of 7)

X-Intercept

is the co-ordinate
of a point that
crosses the X
AXIS

WHAT EVER the
X VALUE IS.

y - Intercept

is the y co-ordinate
that crosses the y-axis.

(-2)