UNIT 3

Section 1: Solving Systems of Equations by Graphing

21. Solve the system of equations by graphing.

$$2x + y = 1$$
$$3x - y = 4$$

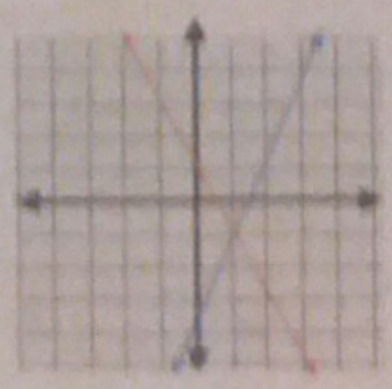
$2x + y = 1$
$-2x \quad -2x$
$y = -2x + 1$

slope: -2
y-intercept: $(0, 1)$

$3x - y = 4$
$-3x \quad -3x$
$-y = -3x + 4$
$y = 3x - 4$

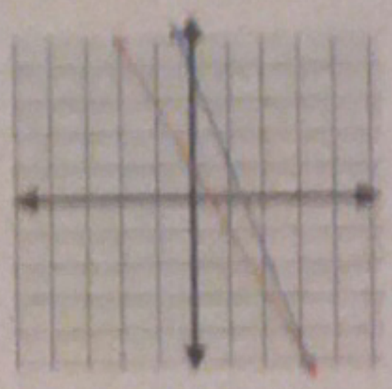
slope: 3
y-intercept: $(0, -4)$

A.



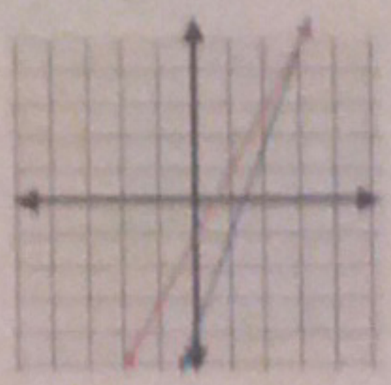
$(1, -1)$

B. NO wrong int(s)



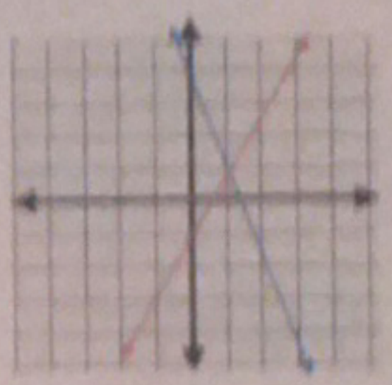
$(3, -5)$

C. No wrong intercepts



$(3, 5)$

D. NO wrong intercepts



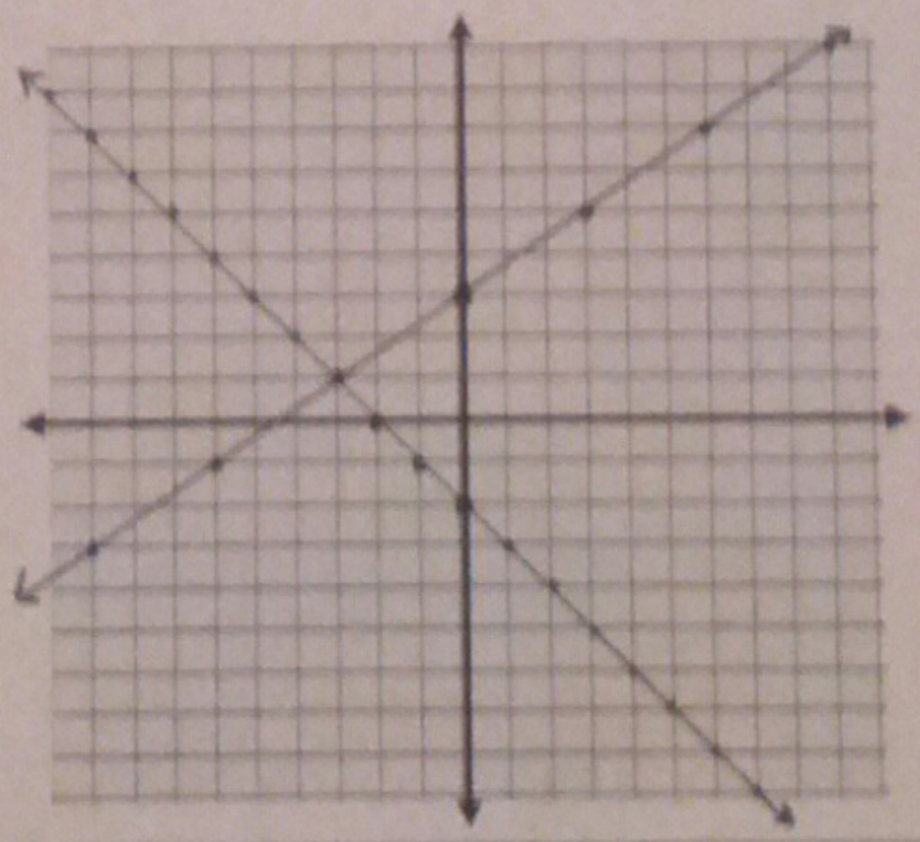
$(1, 1)$

22. Solve the system of equations by graphing.

$$2x - 3y = -9$$
$$x + y = -2$$

$2x - 3y = -9$
$-2x \quad -2x$
$-3y = -2x - 9$
$y = \frac{2}{3}x + 3$ ← y-int, ← slope

$x + y = -2$
$-x \quad -x$
$y = -x - 2$
slope: -1 y-int



Solution: $(-3, 1)$

* check by plugging point into both equations