

### Algebra I: What is the equation of the line if...?

Cut the squares apart.

Match each equation to the corresponding solution.

You should get a new 4 X 4 square.

	$x=5$		$y = -2/3 x + 9$		$y = -2/3 x + 5$		$y = -2/3 x - 9$
$5+x=a$		$m=2 \quad b=-6$	$4+x=a$	$m=3 \quad b=-10$	$8+x=2=a$	$m=4 \quad b=6$	$y = -3/4 x + 7$
	$(3,3) \quad (3,3)$		$m=3 \quad (-3,1)$		$(1,7) \quad (6,7)$		$m = -1 \quad (5, -2)$
	$y=2x - 4$		$y = 3/4 x - 7$		$y = -x+3$		$y=4x+7$
$3=x$		$(5, -4) \quad (-1, -4)$	$6+x \quad 2/1 = a$	$b = -3$	$m: \text{undefined}$	$01-x=3=a$	$x\text{-intercept: } -3$
	$(-4,0) \quad (3,3)$		$m = -2 \quad (1,4)$		$m=4 \quad (0,7)$		$8-x=2 = a$
	$y = -3/2 x + 9$		$y = 3x+10$		$y = 1/2 x + 2$		$x\text{-intercept: } 6$
$3-x=2=a$		$m = -3/4 \quad b=7$	$5=a$	$x\text{-intercept: } -4$	$m = -2$	$4=a$	$m = -2/3$
	$m = -2/3 \quad (6,5)$		$(0,-4) \quad (2,0)$		$4 = a$	$(4,3) \quad (4, -1)$	$m = 4 \quad b=0$
	$y = 1/2 x + 4$		$y = 8$		$(5,0) \quad (10, -2)$		$4 = a$
$3 = -x$		$m=0 \quad b=4$	$4+x \quad 3/2 = a$	$m = -2$	$(5,0) \quad (0,5)$	$m = 1/2 \quad b=9$	$m \text{ is undefined } (5,8)$
	$m=0 \quad (5,8)$				$2+x=9 = a$		$y = 2/3 x + 5$
			$(3,7) \quad (0,5)$			$4 = x$	$(0, -8) \quad (4,0)$
					$m = 1/2 \quad (4,6)$		$(7,1) \quad (7,6)$