

Algebra 1 Tuesday Week 11 Warm-Up

Bring head phones
for Friday

1. Skill 5: Evaluate and Graph a Function

The air tankers used by Cal Fire in fighting fires gather water or fire retardant and then dump it on the fire. An Equation that represents the distance the plane is from the fire is $d(t) = |400 - 100t|$. Where d is the distance the plane is from the drop target (fire) and t is time in minutes. Use the graph to find out what time the plane is 250 miles away from the target.

t	$d(t) = 400 - 100t $	



2. Evaluate: $f(-2)$ for the function $f(x) = -2x^2 + 3x - 3$

3. Skill 3: Solve and Graph Compound Inequalities on a Number Line

$$-10 < 10 - 4x \leq 18$$



Solution: _____

4. Skill 4: Solve and Graph Absolute Value Inequalities and Equations

$$|4x - 12| + 8 = 36$$



Solution: _____

5-3 Slope-Intercept Form - Notes

Problem 1 Identifying Slope and y-Intercept

What are the slope and y-intercept of the graph of $y = 5x - 2$?

Got It? 1. a. What are the slope and y-intercept of the graph of $y = -\frac{1}{2}x + \frac{2}{3}$?

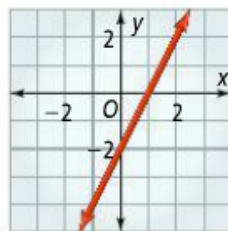
Problem 2 Writing an Equation in Slope-Intercept Form

What is an equation of the line with slope $-\frac{4}{5}$ and y-intercept 7?

Got It? 2. What is an equation of the line with slope $\frac{3}{2}$ and y-intercept -1 ?

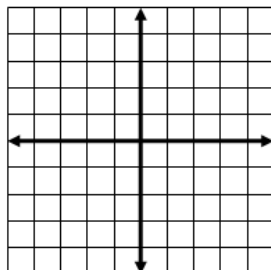
Problem 3 Writing an Equation From a Graph

Which equation represents the line shown?



Problem 5 Graphing a Linear Equation

What is the graph of $y = 2x - 1$?



HW p 312: 7-27 odd, 31, 33

Find the slope and y-intercept of the graph of each equation.

7. $y = 3x + 1$

11. $y = 5x - 3$

13. $y = 4$

9. $y = 2x - 5$

15. $y = \frac{1}{4}x - \frac{1}{3}$

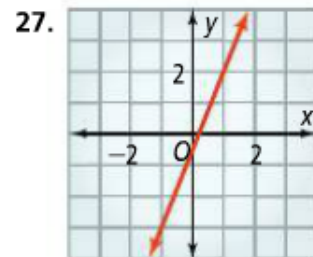
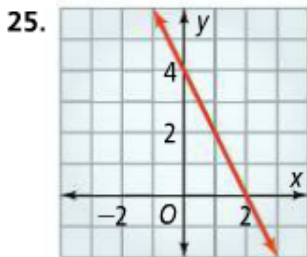
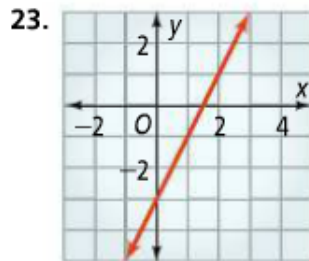
Write an equation in slope-intercept form of the line with the given slope m and y-intercept b .

17. $m = 3, b = 2$

19. $m = 0.7, b = -2$

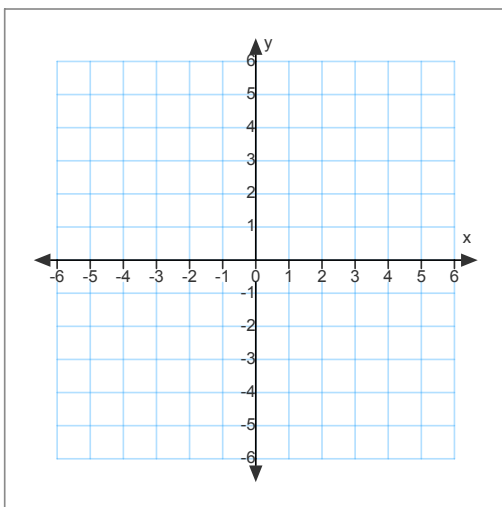
21. $m = -2, b = \frac{9}{5}$

Write an equation in slope-intercept form of each line.

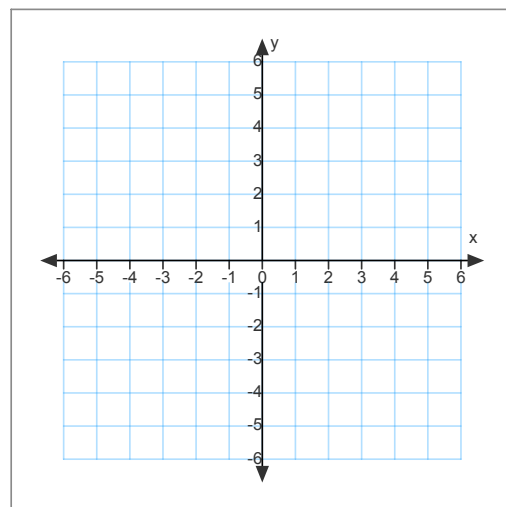


Graph each equation.

31. $y = x + 5$



33. $y = -2x + 1$



See Problem 1.

See Problem 2.

See Problem 3.

See Problem 5.