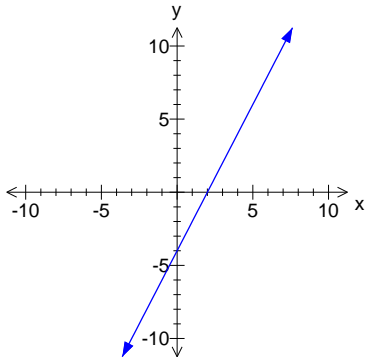


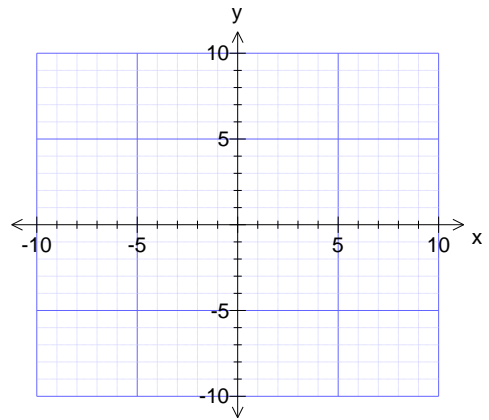
Math 1201 Final Exam Review

Linear Functions

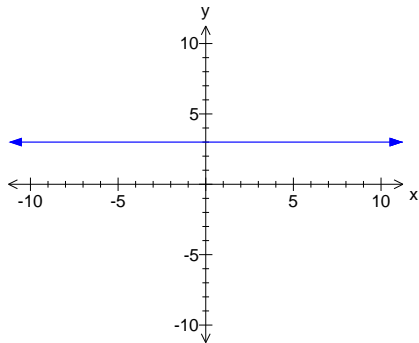
1. What is the slope of the line given by: $y = \frac{2}{3}x - 3$?
2. What is the equation of the graph below in slope-intercept form?



3. What is the y-intercept of the line $y = 5 - 3x$?
4. What is the equation of the line with slope -3 and y-intercept 7 in slope-intercept form?
5. What is the slope of the line segment joining points A(3,-4) and B(3,5)? Use the graph below to aid you in your answer.

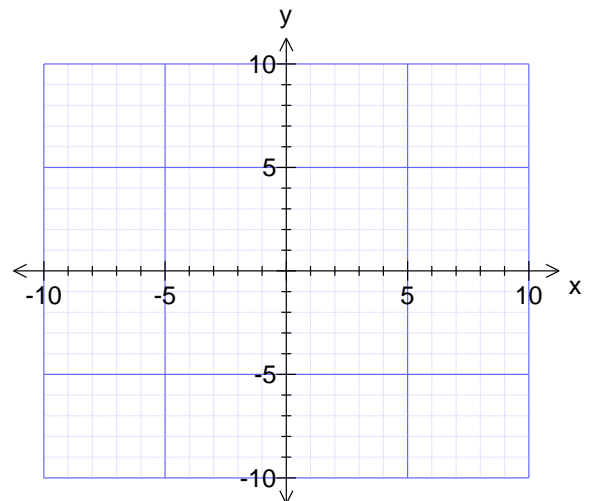


6. What is the slope of the line graphed below?

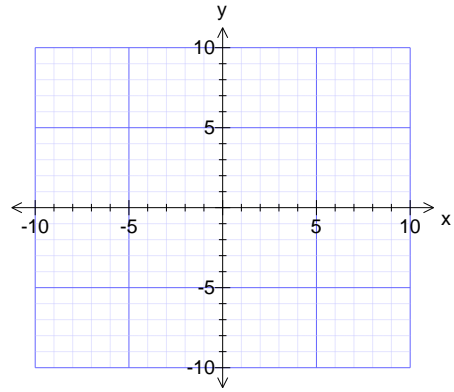


7. Graph the line. State the slope and y-intercept.

$$y = 3x - 2$$



8. Draw the line through point A(-2, 4) with slope $-\frac{3}{5}$.



9. Line AB passes through A(-3, 2) and B(3, 0).
Line CD passes through C(1, -1) and D(4, -2).
Are lines AB and CD parallel? Show your work.

10. A quadrilateral has vertices A(0, 4), B(6, 6), C(8, 3), and D(2, 1). Is quadrilateral ABCD a parallelogram?

11. Triangle ABC has vertices A(-3, 7), B(-1, 5) and C(-5, 2). Is ABC a right triangle?

12. What are the slope and point which formed the equation $y + 1 = 3(x - 2)$?

13. Write the slope-point form of the equation of the line passing through point A(-2, 4) with slope $m=-5$.

14. Find the slope of the equation $6x + 4y - 5 = 0$

15. Find the x and y intercepts of the equation $3x - 4y - 24 = 0$.

16. Write the equations in general form:

A) $y = 2x - 1$

B) $y = -\frac{1}{3}x + 4$

C) $y + 1 = -\frac{2}{5}(x - 2)$

17. Write the equation in slope-intercept form.

$$3x + 4y - 16 = 0$$