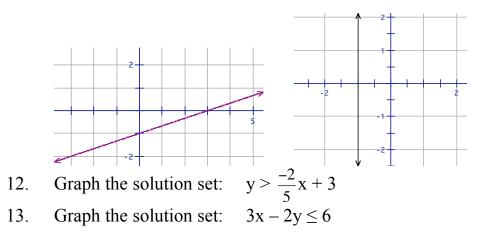
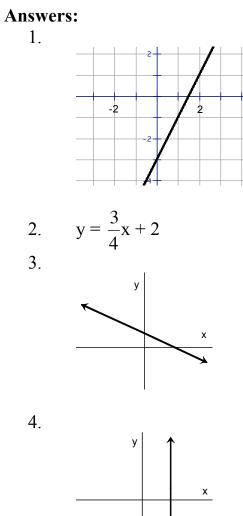
Palomar College Math Placement Test Study Guide Intermediate Algebra

Topic 4: Linear Equations and Inequalities in Two Variables

- 1. Graph: y = 2x 3
- 2. Solve for y: 3x 4y 8 = 0
- 3. Sketch the graph of a line whose slope is less than zero, but whose yintercept is greater than zero.
- 4. Sketch the graph of a line whose slope is undefined.
- 5. Find 5 points on the line $y = \frac{-2}{3}x 1$
- 6. Find the slope of the line passing through the points (2, -3) and (-1, 2)
- 7. Find an equation of the line with slope $\frac{1}{4}$ passing through the point (-4, 4)
- 8. Find the slope of the line 2x + 5y = 10
- 9. Write an equation of the line perpendicular to y = 2x + 3 through the point (0, 4)
- 10. Write an equation of the line parallel to 2x + 3y = 6 passing through the point (-1, -2)
- 11. Write an equation of the line shown in the graph.
 - a. b.



14. The coordinates of a point P are (1, -5). Find the coordinates of a point Q so that the line y = -2 is the perpendicular bisector of \overline{PQ} .



Some possible points are (0, -1), (3, -3), (6, -5), (-3, 1), (-6, 3)m = -5/35. 6.

0.
$$m = -3/3$$

7. $y = \frac{1}{4}x + 5$
8. $m = -2/5$
9. $y = -\frac{1}{2}x + 4$
10. $y = -\frac{2}{3}x - \frac{8}{3}$
11. a. $y = \frac{1}{3}x - 1$
b. $x = -1$

