

7. Linear equations in two variables, slope, intercepts,
parallel and perpendicular lines

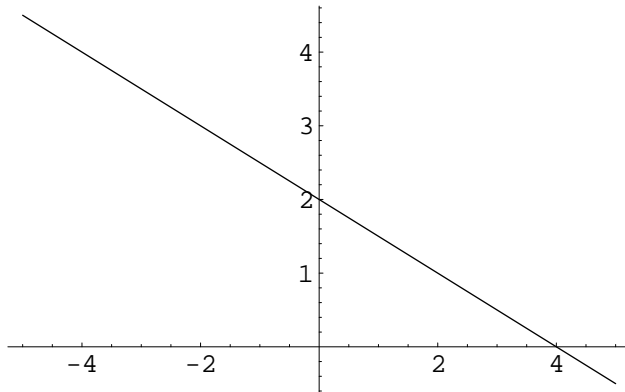
Practice Problems

1 In which quadrant is the point $(-6, 9)$? Quadrant II

1. Find the distance between the points $(2, -4)$ and $(-2, 3)$ $\sqrt{65}$

3 Find x such that $(x, 7)$ satisfies the equation $2x - 4y = -40$ $x = -6$

4 Find the equation of the line whose graph is given. $y = -\frac{1}{2}x + 2$



5 Find the x - intercept of the line $y - 2x = 8$ $(-4, 0)$

6 Find the slope of the line $9x - 8y = 5$ $\frac{9}{8}$

7 Find the equation of the line with slope -3 and passing through the point $(8, -1)$ $y = -3x + 23$

8 Find the equation of the line that is parallel to the line $8x - 3y = 9$ and goes through the point $(2, 2)$ $y = \frac{8}{3}x - \frac{10}{3}$