Classwork 1

College Algebra and Trigonometry, MTH 123, Section 3260, Fall 2011 Instructor: Abhijit Champanerkar

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POLUTION

1. Find the slope of the line passing through points (3, -1) and (-2, 5).

$$m = \frac{5 - (-1)}{-2 - 3} = \frac{-6}{5}$$

2. Find the equation of the line passing through the point (2, -3) and parallel to the line 6x - 3y + 7 = 0

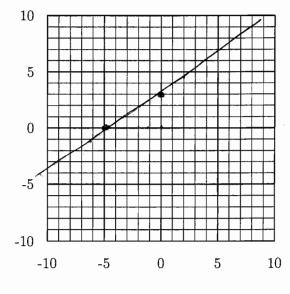
$$3y = 6x + 7$$
$$y = 2x + 7/3$$

$$3y = 6x + 7$$
 $| 5|ape = 2$
 $y = 2x + 7/3$ | point = (2,-3)

Eqn
$$y-(-3)=2(x-2)$$

 $y+3=2x-4$
 $y=2x-7$

3. Find the x and y intercepts of the line 3x - 5y + 15 = 0 and sketch the line.



y-intercept:

$$x=0$$
 -5y+15=0
-5y=-15
 $y=3$
point = (0,3)

$$y = 0$$
 $3x + 15 = 0$
 $3x = -15$
 $x = -5$
 $x = -5$