Date _____

1. Write the equation of the line in point-	2. Graph the equation using the				
slope form that passes through the given	intercepts $4x + 3y = -12$. Show your				
points.	work.				
(2,7),(1,4)					
3. Write the equation of the line in	4. A road on a map can be described by				
standard form that is parallel to	the equation $y = 2x + 4$. Another road				
$y = \frac{2}{3}x + 4$ that passes through (-4,7).	will be built perpendicular to this road and passing through $(-3,12)$. What is				
3					
	the equation of the perpendicular line in				
	slope-intercept form? Graph both lines				
	and the point on the back side.				

Algebra 2 Practice 2.3-5 Linear Equations



5. The table shows the number of misdirected bags and the number of late flight arrivals by week, for one airline.

Incidents per Week for January							
37	42	25	9				
12	8	28	36				
			37 42 25				

6. The table shows the value of rice produced in Texas from 2001 to 2007.

Value of Rice Produced in Taxes								
Year 2001 2002	2003	2004	2005	2006	2007			
Price per lb \$.461 \$.416	\$.735	\$.735	\$.777	\$1.00	\$1.13			

SOURCE: http://www.nass.usda.gov/Statistics_by_State/Texas/index.asp#.html

- **a.** Use a calculator to find the line of best fit. Let x = the number of years since 2000.
- **b**. Using your linear model, predict the value of rice in Texas in 2015.
- **c.** Using your linear model, predict when the price is likely to reach \$2.60 per pound.