Algebra 2

The purpose of this is to determine a student's readiness for Algebra 2 at HARC. Please have the student complete without parental assistance or the use of a calculator. Please have the student show their work!!

Name			

1.	Evaluate	x^2y-y^3	if	x=3	and
y=4					

2. Simplify:
$$\frac{-2-2(1-5)}{-2-3}$$

3. Simplify and write the answer with all the variables in the numerator: $\frac{(xm^{-1})^{-3}x^2m^2}{(x^0y^2)^{-2}xy}$

4. Solve for x:
$$3\left(\frac{5}{6} - \frac{5}{3}x\right) = -\left(\frac{-1}{2} + x\right)$$

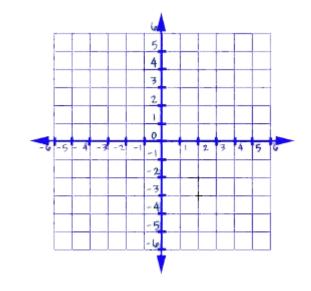
5. The total value of pennies and nickels was \$14.50. Joel counted the coins and found there were 450 coins in all. How many of each type of coin did he have?

6. The scores achieved on 5 exams were 90, 70, 70, 85 and 95. Find the range, mean, median and mode of these 5 exams.

- 7. Twice a number is decreased by 7, and this quantity is multiplied by 3. The result is 9 less than 10 times the number. What is the number?
- 8. Graph y = 3x 5. Indicate the slope and the yintercept.

Slope:

Y-Intercept:



9. Solve by factoring: $x^2-15=2x$

10. Solve and graph the inequality: $\frac{1}{2}x \le 8$