Name_____ Math 8 Regents

Final Exam – Thursday & Friday, June 14th **& 15**th Directions: Show all work. You may use a calculator.

1. Identify a pair of angles that satisfy each relationship.	Corresponding \angle and \angle
1	Vertical \angle and \angle
$4 \xrightarrow{1/2} 3/4$	Alternate Interior \angle and \angle
	Alternate Exterior \angle and \angle
7/8	Supplementary \angle and \angle
2. In the diagram below, parallel lines are cut by a transversal. Determine the value of <i>e</i> .	
Show your work.	
	$2(e-8)^{\circ}$ $(7e-2)^{\circ}$
	•
Answer	`
3. Solve for <i>n</i> .	4. Solve for <i>x</i> . Show all work.
4(4n - 5) = 30 + 6n	3x + 17 = 8x + 2 - 2x
\mathbf{A} $n = 5$	
$\mathbf{B} \ n = 1$	
\mathbf{C} $n=2$	
_ 25	
$\mathbf{D} \ n = \frac{1}{11}$	
	Answer



9. In science class, the students conducted an experiment of how many days it would take bacteria to grow. The table shows the class's results.

Part A Write a function rule for the number of bacteria, *y*, after *x* days.

Growth Rate of Bacteria	
Day (x)	Number of Bacteria (y)
0	30
1	44
2	58
3	72
4	86

Answer_____

Part B What will the number of bacteria be after 7 days?

Answer_____



