## Algebra and Geometry Review 11

1.	Add the matrices. $ \begin{bmatrix} 2 & 0 \\ -1 & 3 \\ 4 & -2 \end{bmatrix} + \begin{bmatrix} -3 & 4 \\ 5 & -3 \\ -1 & 0 \end{bmatrix} $	2. If you rotate the space bounded by the lines x = 4, y = 2, the x and y axis around the x-axis, what shape will be formed?
3.	Multiply. (2x - 1)(3x + 4)	<ul> <li>4. Find the length of PN if RN has a length of 12 and ON has a length of 4.</li> </ul>
5.	Gas cost \$2.53 per gallon in May. In September, gas cost \$3.05 per gallon. What was the percent change in the cost of a gallon of gas?	6. Find the volume of a sphere if it has a radius of 4. Leave π in your answer.
7.	Evaluate. 5(3 - 2) <sup>2</sup> + 4 - (4 ÷ 2)	8. If a 32 ft. tall tree casts an 8 ft. shadow, how long of a shadow does a 6 ft. tall man have?
9.	If two lines are perpendicular, what is the product of their slopes?	10.How many degrees are in the exterior angles of a pentadecagon?

