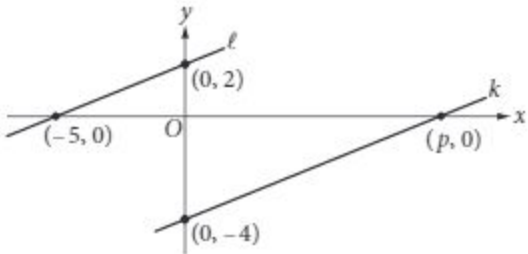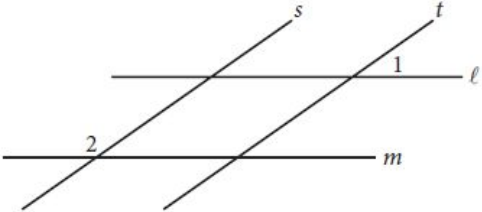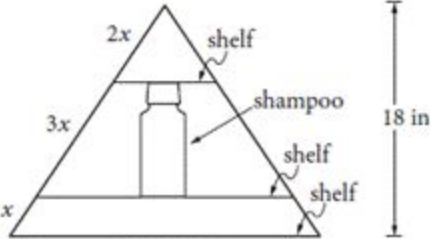Geometry- Level 1

1	A line in the xy-plane passes through the origin and has a slope of $\frac{1}{7}$. Which of the following points lies on the line? A) $(0,7)$ B) $(1,7)$ C) $(7,7)$ D) $(14,2)$	Slope No Calculator
2	 In the xy-plane above, line ℓ is parallel to line k. What is the value of p? A) 4 B) 5 C) 8 D) 10	Slope No Calculator
3	Line ℓ in the xy-plane contains points from each of Quadrants II, III, and IV, but no points from Quadrant I. Which of the following must be true? A) The slope of line ℓ is undefined. B) The slope of line ℓ is zero. C) The slope of line ℓ is positive. D) The slope of line ℓ is negative.	Slope With Calculator

4	In the figure above, lines ℓ and m are parallel and lines s and t are parallel. If the measure of $\angle 1$ is $35°$, what is the measure of $\angle 2$? A) $35°$ B) $55°$ C) $70°$ D) $145°$	Parallel lines With Calculator
5	Jim has a triangular shelf system that attaches to his showerhead. The total height of the system is 18 inches, and there are three parallel shelves as shown above. What is the maximum height, in inches, of a shampoo bottle that can stand upright on the middle shelf?	Triangles No Calculator
6	In the xy-plane, the point $(3, 6)$ lies on the graph of the function $f(x) = 3x^2 - bx + 12$. What is the value of b ?	Graphing Polynomials With Calculator