Elliptical Templates Project

Grading Rubric

	Template: Nar	ne:	
Values	(15 points)		Total:
1.	$a = \frac{1}{2}$ of minor axis (3 Points)		
2.	$b = \frac{1}{2}$ of major axis (3 Points)		
3.	c = distance from center to foci (3 Points)		
4.	p = pipe diameter (2 Points)		
5.	m = pitch of roof (2 Points)		
6.	Template Number (2 points)		
Equation (10 Points)			Total:
1.	Graphical form: (2 Points)		
2.	Equation Correct and typed (8 points) Max points of 3 if not typed.		
	(30 points)		Total:
1.	Shows proper algebraic work for calculating "a" (4 points)		
2.	Shows proper algebraic work for calculating "b" (4 points)		
3.	Shows proper algebraic work for calculating "c" (4 points)		
4.	Shows proper algebraic work for calculating "p" (3 points)		
5.	Uses applicable illustrations to help visualize methods used (15 points)		
5.	3 Computerized illustrations, correctly labeled, corresponds to algebraic work for ease of uno	derstanding _	15 points
	3 Neat, non-computerized illustrations, correctly labeled, corresponds to algebraic work for ease of an		
	2 Computerized illustrations and correctly labeled, does not correspond to algebra – 8 points		8 1
	2 Neat, non-computerized illustrations and correctly labeled, does not correspond to algebra		
	3 Freehand illustrations, correctly labeled, corresponds to algebraic work for ease of understa	anding – 4 pc	ints
	2 Freehand illustrations and correctly labeled, does not correspond to algebra - 2 points		
Appear	ance (25 points) – Teacher's Judgment		Total:
1.	Neatly adds Color (5 points)		
2.	Illustrations are color coded to correspond with work and/or explanation (5 points)		
3.	Layout (10 points) - Process flows, organized, typed, understandable, etc		
	(5 point penalty if too wordy)		
4.	Template hole is smooth and proportional, not jagged (5 points)		
Exactne	ss (20 points)		Total:
1.	Pitch triangles are proportionate and secure (5 points)		
2.	Accuracy of pipe's fit (15 points)		
	Perfect fit – Less than 2 mm error (15 points)		
	Average fit – Between 2mm and 4 mm error (10 points)		
	Poor fit – Between 4 mm and 6 mm error (5 points)		
	Bad Fit – Between 6 mm and 8 mm error(2 points)		
	Not Scorable – Greater than 8 mm error or positioned incorrectly		