

Pat Stone's Sample Test Blue Print

College Algebra Test #3	Categories						Total Pts	Percentage
	Know	Comprehend	Apply	Analyze	Synthesize	Evaluate		
Interpret the "complete" graph of a polynomial function (specify the intercepts(Q1), determine if the degree is even or odd (Q2), specify the sign of the leading coefficient (Q3)				Q1,Q 2, Q 3			Q1: 4 pts Q2: 1 pt Q3: 1 pt	6/50 12%
Given a polynomial function in factored form, produce a "complete" graph (show intercepts including local behavior at the x-intercepts, end behavior)(Q5)			Q5				Q5: 9 pts	9/50 18%
Given a polynomial function in expanded form with rational roots, convert the function to factored form (Q6) and produce a "complete" graph of the function (Q7)			Q6		Q7		Q6: 3 pts Q7: 9 pts	12/50 24%
Given the roots of a polynomial function with a leading coefficient of one and the multiplicity of each root, produce the equation of the function in factored form (Q8)					Q8		Q8: 5 pts	5/50 10 %
Given a non-real complex root of a polynomial function in expanded form with additional rational roots, determine all the roots of the function (Q9)					Q9		Q9: 9 pts	9/50 18%
Solve an application problem involving a third degree polynomial (Q10)						Q10: 9 pts		9/50 18%
Total			12	6	23	9		50
Percentage			24%	12%	46%	18%		100%