

NAME Answer Key
 SCHOOL _____

WORCESTER POLYTECHNIC INSTITUTE

SIXTEENTH ANNUAL INVITATIONAL MATH MEET
 OCTOBER 23, 2003
 INDIVIDUAL EXAM ANSWER SHEET

QUESTION	ANSWER	SCORE	QUESTION	ANSWER	SCORE
1	$x = 7/3, -9/2$		5	$\frac{5y-1}{3y-2}$ or $\frac{5x-1}{3x-2}$	
2	$\tan^{-1}\left(\frac{1}{9}\right)$		6	$\frac{1}{125}$ or 0.008	
3	$(x+1)(x-1)(x^2+1)(x^4+1)$		7	$(3, -9)$ or $x=3, y=-9$	
4	0 or none		8	11100111_2	
# CORRECT $\times 1 =$			# CORRECT $\times 2 =$		

QUESTION	ANSWER	SCORE
9	$\pi/4$	
10	1, -3, -2	
11	$\frac{7834}{9999}$	
# CORRECT $\times 3 =$		

Individual Total