7-4 Intercepts and Roots

Name: _		Time> Start:	Finish:	Total Time =				
In 1-5, find the x-intercepts and the y-intercepts of the given equations.								
1.	$f(x)=x^2+8x-9$	x-intercept =	y-interc	ept =				
2.	f(x) = 3x - 9	x-intercept =	y-interc	ept =				
3.	$f(x)=x^2+6x-5$	x-intercept =	y-interc	ept =				
4.	$f(x) = 4x^2 - 7x - 2$	x-intercept =	y-interc	ept =				
5.	$f(x) = x^3 + 2x^2 - x - 2$	x-intercept =	y-interc	ept =				
6.	What are the roots of $x^2 + x - 20$?							
7.	What are the roots of $x^2 + 4x - 5$?							
8.	What are the roots of $x^3 - 4x$?							
In 9-12, write the polynomial of least degree for each set of roots given.								
9.	2, 5							
10.	1, 4i, -4i							
11.	3, 2, 1							

12. 2, 2i, -2i

SAT Questions

<u>13</u> . If <i>n</i> is a positi	ve integer, which	ch of the following	must be even?	
A. <i>n</i> + 2	B. 2 <i>n</i>	C. 3 <i>n</i>	D. n^2	E. <i>n</i> ³

____14. If the product of five integers is negative, then, at most, how many of the five integers could be negative? A. One B. Two C. Three D. Four E. Five

<u>15.</u> If x and y are positive integers and $3^{2x} \bullet 3^{2y} = 81$, what is the value of x + y? A. $\frac{3}{2}$ B. 2 C. 4 D. $\frac{81}{2}$ E. 81