Nam	eDate	9		
The	Fundamental Theorem of Algebra - Ma	tching	, W	/orksheet
Write the letter of the answer that matches the problem.				
	1. What are the roots of $y^2 + 75$?	а	•	- i√19, i√19
	2. What are the roots of $x^2 - 48$?	b	•	$\pm i \frac{11}{\sqrt{13}}$
	3. What are the roots of $x^2 + 52$?	C		x ³ + 3x ² - 90x - 400
	4. Solve the equation and write any comp solutions in the form $a + bi$, where a and are real numbers. $6 x^2 + 114 = 0$			±√75
	5. Solve the equation and write any comp solutions in the form a + bi, where a and are real numbers. $8 x^2 + 19 = 0$			±√48
	6. Solve the equation and write any comp solutions in the form $a + bi$, where a and are real numbers. 13 $x^2 + 121 = 0$			$x^3 + 10x^2 + 21x$
	7. Find a polynomial with integer coefficies satisfying the following conditions: Degree 3 with zeros 5, -10, and 8.	ents g		±√52
	8. Find a polynomial with integer coefficien satisfying the following conditions: Degree 3 with zeros 0, 7, and 3.	nts h		$\pm i \sqrt{\frac{19}{8}}$

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