

Lesson 1.19 - The Fundamental Theorem of Algebra (part 3)

Practice: Given one zero, determine all remaining zeros of the polynomial

<i>Function</i>	<i>Zero</i>
51. $f(x) = 2x^3 + 3x^2 + 50x + 75$	$5i$

52. $f(x) = x^3 + x^2 + 9x + 9$	$3i$
---------------------------------	------

53. $g(x) = x^3 - 7x^2 - x + 87$	$5 + 2i$
----------------------------------	----------

Lesson 1.19 - The Fundamental Theorem of Algebra (part 3)

Practice: Given one zero, determine all remaining zeros of the polynomial

<i>Function</i>	<i>Zero</i>
54. $g(x) = 4x^3 + 23x^2 + 34x - 10$	$-3 + i$

55. $h(x) = 3x^3 - 4x^2 + 8x + 8$	$1 - \sqrt{3}i$
-----------------------------------	-----------------

56. $f(x) = x^3 + 4x^2 + 14x + 20$	$-1 - 3i$
------------------------------------	-----------

Lesson 1.19 - The Fundamental Theorem of Algebra (part 3)

Practice: Given one zero, determine all remaining zeros of the polynomial

<i>Function</i>	<i>Zero</i>
59. $f(x) = x^4 + 3x^3 - 5x^2 - 21x + 22$	$-3 + i\sqrt{2}$

60. $f(x) = x^4 + 2x^3 + x^2 + 18x - 72$ $3i$