My Course	Test 1		Name: Answer Key	_
Spring, 2015			Dr. D. P. Story	
<b>Solutions.</b> The solutions to Test 1.				
1. (a) It is well known that <u>Normalized and the Normalized Alphane</u>	ewton and	Leibniz	_ are jointly credited as the founders of $\Box$	f
<b>1.</b> (b) <u>T</u> The area of a circle i	s $\pi r^2$ .			]
<b>1.</b> (c) $\square$ There is only one real root		There are two distinct real roots		
$\checkmark$ There are two complex roots		None of these		]
<b>2.</b> We use the quadratic formula:				
$x = \frac{3 \pm \sqrt{9 - 4 \cdot 2 \cdot 2}}{2 \cdot 2} = \frac{3 \pm \sqrt{-7}}{4} = \boxed{\frac{3 \pm \sqrt{7}i}{4}}$				

3. Ans: 
$$5x + 3y = 26$$
  
Apparently the given line has slope  $m = 3/5$ , so  $m_{\perp} = -5/3$ . The rest is left to the reader.

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