

2415 Test 1 (50 minutes)

★ Name: _____

b) What is the area of the triangle formed by \vec{a} , $2\vec{b}$, and $-\vec{a} + 2\vec{b}$? (Hint: $\Delta = \frac{1}{2} |\vec{a} \times 2\vec{b}| = 7 \text{ cm}^2$?)

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(25 minutes)

Test 1

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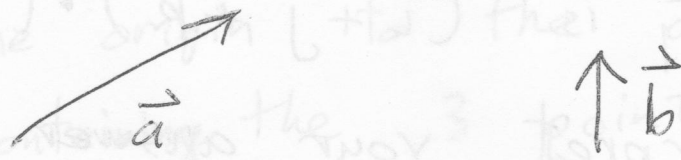
Name: _____

Score:		Max	Actual
	#1	36	
	#2	32	
	#3	32	
	Total	100	

- #1
- a) What is $|\vec{i} + \vec{j} + \vec{k}|$?
- b) What is $(\vec{i} + \vec{j} + \vec{k}) \cdot (\vec{i} - 2\vec{k})$?
- c) Interpret your answer to (b) geometrically

Score: $\frac{1}{2}$	# of correct answers	3
Score: $\frac{1}{2}$	# of correct answers	3
Score: $\frac{1}{2}$	# of correct answers	3
Total		100

2 a) Sketch $\vec{a} - 2\vec{b}$ given:



b) What is the area of the triangle formed by $\vec{a} - 2\vec{b}$, $2\vec{b}$, and $-\vec{a}$ if $|\vec{a} \times 2\vec{b}| = 7 \text{ cm}^2$?
(Hint: $\triangle + \nabla = \square$.)

#3 What is the distance from
the origin to the plane
containing the 3 points

(1, 2, 3), (0, 0, 1), (0, -1, 1)?