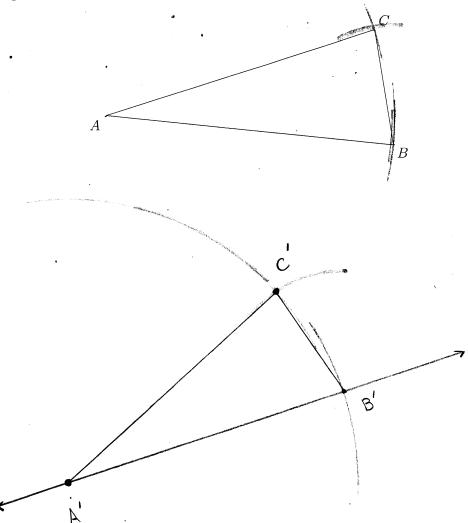
## Math 206 - Quiz 10

May 2, 2018

Name _	key	
	J	Score

Show all work to receive full credit. Supply explanations when necessary.

1. (1.5 points) Use a compass and straightedge to construct a triangle congruent to the one given below.



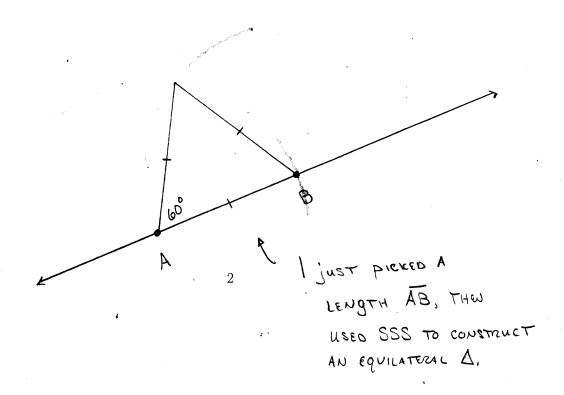
2. (1 point) Show, by attempting the construction, that a triangle cannot have sides of lengths  $4\,\mathrm{in}$ ,  $8\,\mathrm{in}$ , and  $3\,\mathrm{in}$ .

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3. (1 point) Use only a compass and straightedge to construct an angle that measures  $60^{\circ}$ . (Hint: What kind of triangle has three  $60^{\circ}$  angles?)

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4. (1.5 points) Use only a compass and a straightedge to construct an angle whose measure is twice that of the angle shown below. Then use your protractor to measure the new angle.

