Due: see webpage

Section: ____

- 1. a) Find the domain of the function $f(x) = \sqrt{x+7}$
 - b) Solve the following given equation $-5 + \sqrt{x+7} = x$

c) Show the "checks" to identify extraneous solutions

d) List the solution(s)

2. Rationalize the denominator:

$$\frac{\sqrt{2}-4\sqrt{5}}{2\sqrt{3}+3\sqrt{7}}$$

3. Subtract the following two complex numbers. Simplify as much as possible.

$$(7-4i)-(2+3i)=$$

4. Multiply and express the answer as a simplified complex number:

$$(2+5i)(3-2i)=$$