

## MAC1140 SEC29 HW 09-14-2007 3.8

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Due: 09-17-2007

Full Name:

Sec#:

Extra Credit Attempted?

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1.

[3.8.1aPT] Solve  $(2x - 3)(x + 2)(3 - x) > 0$

- $(-\infty, \frac{3}{2})$
- $(-\infty, -2) \cup (\frac{3}{2}, \infty)$
- $(-2, \frac{3}{2}) \cup (3, \infty)$
- $(-\infty, -2) \cup (\frac{3}{2}, 3)$
- none of these

2.

[3.8.1BPT] Solve  $2x^2 + x \geq 3$

- None of these
- $(-\infty, -\frac{3}{2}] \cup [1, \infty)$
- $[-1, \frac{3}{2}]$
- $[-\frac{3}{2}, 1]$
- $(-\infty, -1] \cup [\frac{3}{2}, \infty)$

3.

[3.8.2aPT] Solve  $\frac{x(x^2+4)(x-3)}{(x-1)(x+1)} < 0$

- $(-1, 0) \cup (1, 3)$
- $(-\infty, -1) \cup (0, 1) \cup (3, \infty)$
- $(0, 3)$
- $(-2, -1) \cup (0, 1) \cup (2, 3)$
- $(-2, 0) \cup (2, 3)$