

MATH 017 WORKOUT 12 NAME: _____

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[Run: 10/24/2012 at 13:9. Order of Checkable Items: List.]

12-1. Given the double affine problem in **Dollars**

$$\text{BOTH} \begin{cases} -2x + 4 \leq -5x + 10 \\ -4x + 20 > 0 \end{cases}$$

Determine:

- i. The boundaries of the solution subset.
- ii. Which of the boundaries, if any, are in the solution subset.
- iii. Which of the intervals, if any, are in the solution subset.
- iv. The graph the solution subset.
- v. The name the solution subset.

12-2. Given the double affine problem in **Dollars**

$$\text{EITHER ONE OR BOTH } \begin{cases} -2x + 4 > -5x + 10 \\ -4x + 20 < 0 \end{cases}$$

Determine:

- i.** The boundaries of the solution subset.
- ii.** Which of the boundaries, if any, are in the solution subset.
- iii.** Which of the intervals, if any, are in the solution subset.
- iv.** The graph the solution subset.
- v.** The name the solution subset.

12-3. Given the double affine problem in **Dollars**

$$\text{EITHER ONE BUT NOT BOTH } \begin{cases} -2x + 4 < -5x + 10 \\ -4x + 20 \geq 0 \end{cases}$$

Determine:

- i.** The boundaries of the solution subset.
- ii.** Which of the boundaries, if any, are in the solution subset.
- iii.** Which of the intervals, if any, are in the solution subset .
- iv.** The graph the solution subset.
- v.** The name the solution subset.