M-109 QUIZ#1

Name_____

1. Choose the correct answers:

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  a. The solution of the inequality

$$-11 \le 3 - 8x \le -2$$

  is

  $(i)\left[\frac{5}{8},\frac{7}{4}\right]$ $(ii)\left[-\frac{5}{8},\frac{7}{4}\right]$ $(iii)[\frac{5}{8},\frac{7}{4})$ $(iv)\left(-\frac{5}{8},-\frac{7}{4}\right)$

  b. If $g(x) = 3, \quad x \le 0$
  $\qquad\qquad -3, \quad x > 0$
  then R_g is
  $(i)(-3,3)$ $(ii)R\backslash\{-3,3\}$ $(iii)[-3,3]$ $(iv)\{-3,3\}$

  c. If a straight line passes through $(4,9)$ and $(18,2)$ then the $y-intercept$ is
  $(i)9$ $(ii)10$ $(iii)11$ $(iv)12$

  d. If $g(x) = \sqrt{2-x}$ and $f(x) = \sqrt{x+2}$ then D_{g+f} is
  $(i)(-\infty,-2]$ $(ii)[-2,2]$ $(iii)(-2,2]$ $(iv)[2,\infty)$

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