Mathematics 101 Worksheet 3.1-3.4

Problems

1) Solve the following systems by i) the graphing method, ii) the substitution method, and iii) the addition method.

a) $y = x - 1$ and $y = 2x - 4$

b) $6x + 2y = 4$ and $3x = -y + 2$

c) $y = \frac{3}{4}x - 4$ and $-x + 2y = -6$

d) $y = \frac{1}{2}x - 2$ and $-4x + 8y = -8$

2) Melinda invested twice as much money in an account paying 5% simple interest as she did in an account paying 3.5% simple interest. If her total interest at the end of one year is \$303.75, find the amount she invested in the 5%?

3) Two angles are complementary. One angle measures $6°$ more than 5 times the measure of the other. What are the measures of the two angles?