(a)
$$\overline{x} = \frac{1}{5} (1+2+1.6+3.1+2.2) = 1.98$$
 $\overline{y} = \frac{1}{5} (3+4.5+3.1+9.5+2.2) = 4.46$
 $\overline{y} = \frac{1}{5} (4-\overline{x})(y_1-\overline{y}) = (1-1.98)(3-4.46)+(2-1.98)(4.5-4.46)+1.1+(2.2-4.46)}{(2.2-4.46)} = \frac{1.4308+0.0008+0.5168+5.6448+(-0.49372)=7.096}{(2.2-4.46)}$
 $\overline{y} = \frac{1.4308+0.0008+0.5168+5.6448+(-0.49372)=7.096}{(2.2-4.46)} = \frac{1.408}{(2.2-4.46)} = \frac{1.381}{(2.2-4.46)} = \frac{1.381}{(2.2-4.46)}$

$$b = y - m\bar{x} = 4.46 - 2.95 \cdot 1.98 = 4.381 \approx -1.38$$

 $i \cdot y = 2.95x - 1.38$