2.b

2.6

$$\omega(3^{2}+32^{2})=32^{2}$$

$$\omega = \frac{32^2}{31+32^2}$$

Thus
$$w_1 = w = \frac{32^2}{3^2 + 32^2}$$
, $w_2 = 1 - w = 1 - \frac{32^2}{3^2 + 32^2} = \frac{31^2}{3^2 + 32^2}$

Hence, wi is inversely proportional to bi

$$\Longrightarrow Wi \propto \frac{1}{\delta_1}$$