HW 15

① ✓

② $u = .2 \quad v = .3 \quad (i) = \boxed{.5}$

(ii) $(u,v) \to \left(.04 + .06 + \frac{.09}{4}, .12 - .08 - \frac{.09}{2} + .09 + .4\right)$

$= (.1225, .245) \quad 1 - .1225 - .245 = \boxed{.6425}$

(iii) $\boxed{.6425}$

③ $u = .5 \quad v = .3 \quad (i) \ \boxed{.2}$

(ii) $(u,v) \to \left(.25 + .15 + \frac{.09}{4}, -.3 - .5 + 1 - \frac{.09}{2} + .3\right)$

$= (0.4225, 0.455) \quad 1 - .4225 - .455 = \boxed{.1225}$

(iii) $\boxed{.1125}$