HW9 Solution

10.7 $\theta_w = 0.52°$.

10.8   Slit width is b $= 106.5\mu$m. In water, the angle would be $\theta = 4.66°$.

10.11   4 Young's fringes inside the central bright band.

10.17   Three parallel slits would give this pattern, since there are two minima between neighboring principal maxima.

10.23 $q_{min} \approx \lambda = 400nm$ (for visible light).