(a) $\Delta \varphi = 2.21\pi \ V_{dark} = 1.60 \,\text{V} \ V_{bright} = 2.86 \,\text{V} \ \lambda = 532 \,\text{nm}$

(b) $\Delta \varphi = 1.98\pi \ V_{dark} = 1.60 \, \text{V} \ V_{bright} = 2.86 \, \text{V} \ \lambda = 532 \, \text{nm}$