October 12, 2012

Section 6.6

(1) $\frac{1}{r} = \frac{1}{r_1} + \frac{1}{r_2}$ solve for r

LCD : $r \cdot r_1 \cdot r_2$

$r_1 \cdot r_2 = r \cdot r_2 + r \cdot r_1$

$r_1 r_2 = r(r_2 + r_1)$

$\frac{r_1 r_2}{r_2 + r_1} = r$

λ	lambda
θ	theta
ω	Omega

(2) $\frac{\theta}{\omega} = \frac{2L}{c}$ for c

$\theta c = 2Lw$

$c = \frac{2Lw}{\theta}$

(3) Work problem

(56)

	days
Mr. D	4
Son	6
together	X

LCD = $12x$

$\frac{1}{4} + \frac{1}{6} = \frac{1}{x}$

$3x + 2x = 12$

$5x = 12$

$x = 12/5$

$x = 2\frac{2}{5}$ days ✓