$$\langle V(x) \rangle = \frac{1}{2} \omega \omega^{2} \langle x^{2} \rangle = \frac{1}{2} \omega \omega^{2} \frac{1}{2} \omega \omega^{2}$$

$$\langle V(x) \rangle = \frac{1}{2} \omega \omega^{2} \langle V(x) \rangle = \frac{1}{2} \omega \omega^{2}$$

$$(6-41)a)$$
 $\frac{4^{2}k_{2}^{2}}{2w} = E = 2V_{0}$
 $\frac{1^{2}k_{2}^{2}}{2w} = E-V_{0} = V_{0}$ $\frac{1}{2}$ $\frac{1$

b)
$$R = \left(\frac{k_1 - k_2}{k_1 + k_2}\right)^2 = \left(\frac{\sqrt{z-1}}{\sqrt{z+1}}\right)^2 = 0.029$$

c)
$$T = 1 - R = 0.971$$