Magnitude of Changes to Divert Commuters to Transit

$E_P = -\dfrac{\%\ \text{Transit Trips}}{\%\ \text{Price of Transit}}$

$-0.33 = \dfrac{20\%}{x}$ (x) - percent reduction in transit price

$-0.33x = 20\%$

$x = -60.6\%$

$E_L = -\dfrac{\%\ \text{Transit Trips}}{\%\ \text{Line-Haul Time}}$

$-0.39 = \dfrac{20\%}{x}$ (x) - percent reduction in line-haul time

$-0.39x = 20\%$

$x = -51.3\%$

$E_A = -\dfrac{\%\ \text{Transit Trips}}{\%\ \text{Access Time}}$

$-0.71 = \dfrac{20\%}{x}$ (x) - percent reduction in access time

$-0.71x = 20\%$

$x = -28.2\%$

Thus diversion of commuters to transit requires relatively large reductions in line haul time and price and a relatively small reduction in access time.