

1. w varies indirectly with v . When $w = 2.4$, $v = 2.5$. Find v when $w = 3.6$.
2. When a person swims underwater, the pressure in his/her ears varies directly with the depth at which he/she is swimming. At 10 ft. there is 4.3 psi. Find the pressure at 60 feet.
3. Hours spent studying are directly related to the grade received on the ACT's. If Bert studies 2 hours for the ACT's to get a 50% on the test, how long would he have to study to get a 95% on his test?
4. The amount of time it takes to travel from Goshen to NYC varies inversely with the average speed traveled. If a train takes one hour and 40 minutes to get to NYC at 50 mph, how fast would it need travel to cover the same distance in one hour?
5. Δ varies indirectly with Ψ . When $\Delta = 3.6$, $\Psi = .25$, find Ψ when $\Delta = 1.8$.