How do I figure a pump's "head" or pressure output?

Head produced by a pump is the difference between suction pressure and discharge pressure plus the difference in velocity heads (sometimes negligible) typically represented as feet differential.

$$h = (Pd - Ps) + (Vhd - Vhs)$$

Pd= PSI discharge pressure needs to be converted to feet Ft = 2.31 (psi)

 $Ft = \underline{2.31}(psi)$ SG Ps= PSI suction pressure (needs to be converted to feet)

Vhd = velocity head discharge = \underline{V}^2 where V is the velocity in the pipe and "g" is gravity (typically 32.2ft/sec²). 2q

 $\begin{tabular}{ll} Vhs = velocity head suction = $\frac{V^2}{2g}$ & where V is the velocity in the pipe and g is gravity \\ & (typically 32.2ft/sec^2 \\ \end{tabular}$







