Data Sheet: Hubble Redshift Distance Reoation

Galaxy Field Name	Abs Mag M	Photon Count	App Mag m	Dist in pc	Dist in Mpc	$\lambda_{K measured}$ K Line	$\lambda_{H measured}$ H Line	$\Delta\lambda_H$	$\Delta\lambda_K$	Velocity H	Velocity K	Velocity AVG
	-22											
	-22											
	-22											
	-22											
	-22											

Using the Graph: Average Value of H = _____km/sec/Mpc

Useful Equations and Quanties

$M = m + 5 - 5 * \log D$

$v_K = c * \frac{\Delta\lambda_K}{\lambda_K}$

1 light year = .306 pc

Wavelength of the K Line:
$\lambda_K = 3933.67$

$\log D = \frac{m - M + 5}{5}$

$\Delta\lambda_H = \lambda_{H measured} - \lambda_H$

1 Mpc = 1 x 10^6 pc

Wavelength of the H Line:
$\lambda_H = 3968.47$

$v_H = c * \frac{\Delta\lambda_H}{\lambda_H}$

$\Delta\lambda_K = \lambda_{K measured} - \lambda_K$

1 pc = 3.26 light years

c = 3 x 10^{5} km/sec