

DP Meter CM3215 - Spring 2014			
Station	Names (both partners)	Differential Pressure (psi) vs I(mA)	Time/ Section
1	Dylan Johnson Michelle Hoard	$Dp = 0.2341I - 0.9213$	8A
2	Matthew Manning Jessica M	Y is DP (PSI) x is Multimeter reading(mA) $0.2333x - 0.9719 = Dp(PSI)$	8A
3	Alex Bank Kevin Biolchini	$DP = 0.2337x - 0.9719$	8A
4	Mary Kate Mitchell Chelsea Dean	$\Delta P (psi) = 0.2347 \cdot I (mA) - 0.9402$	8A
5	Dylan Turpeinen Kyle Thompson	$\Delta P (psi) = 0.2348 \cdot I (mA) - 0.7726$	8A
6	Beau Begeman	$(\Delta p, psi) = 0.239(I, mA) - 1.12psi$	8A

Rotameter CM3215 - Spring 2014			
Station	Names (both partners)	Flow rate (gpm) vs Reading %	Time/ Section
1	Michelle Hoard	$Q(\text{gpm}) = 0.05006 \times R(\%) - 0.059$	8A
2	Jessica Montgomery Dylan Johnson	$Q(\text{gpm}) = 0.0479 \times R(\%) + 0.0455$	8A
3	Alex Bank Matt Manning	$y = 0.0496x - 0.0415$	8A
4	Mary Kate Kevin Biolchini	$Q = 0.0497 \times (R\%) - 0.1291$	8A
5	Dylan Turpeinen Chelsea Dean	$Q(\text{gpm}) = 0.0493 \times R(\%) - 0.0967$	8A
6	Beau Begeman Kyle Thompson	$(Q, \text{gpm}) = 0.0490(n, \%) - 0.0838\text{gpm}$	8A

NB

Orifice Meter CM3215 - Spring 2014			
Station	Names (both partners)	Flow rate (gpm) vs ΔP(psi)	Time/ Section
1	Michelle Hoard	$Q(\text{gpm}) = 0.7887 * \text{sqrt}[1(\text{mA})] - 1.082$	8A
2	Jessica Montgomery Dylan Johnson	$Q(\text{gpm}) = 0.355 * \Delta P(\text{psi}) + 0.914$	8A
3	Alex Bank Matt Manning	$\text{sqrt}(\text{DP}) = 0.8043x(\text{gpm}) - 0.04936$	8A
4	Mary Kate Kevin Biolchini	$Q(\text{gpm}) = -0.0171 \Delta P(\text{psi})^2 + 0.494 \Delta P(\text{psi}) + 0.814$	8A
5	Dylan Turpeinen and Chelsea Dean	$Q(\text{gpm}) = 0.240 * \Delta P(\text{psi}) + 1.06$	8A
6	Beau Begeman Kyle Thompson	$(Q, \text{gpm}) = 0.238(\Delta p, \text{psi}) + 1.58\text{gpm}$	8A

NB

Lossy Pump Characteristic Curves CM3215 - Spring 2014			
Station	Names (both partners)	Head (ft) vs Capacity (GPM)	Time/ Section
1	Kyle Thompson Michelle Hoard	$H_p(\text{ft}) = -2.5[Q(\text{gpm})]^2 + 2.9Q(\text{gpm}) + 75$	8A
2	Matthew Manning Jessica Montgomery	$(1) y(\text{ft}) = -2.6593x(\text{gpm})^2 - 1.768x(\text{gpm}) + 78.778$	8A
3	Alex Bank Dylan Johnson	$H = -1.3004 Q^2 - 4.1001Q + 82.344$	8A
4	Mary Kate Mitchell	$H(\text{ft}) = -1.71(Q(\text{gpm}))^2 - 2.68Q(\text{gpm}) + 80.3$	8A
5	Dylan Turpeinen Kevin Biolchini	$H(\text{ft}) = -1.8676 * \text{capacity}(\text{gpm})^2 - 1.7194 * \text{capacity}(\text{gpm}) + 78.131$	8A
6	Beau Begeman Chelsea Dean	$(H, \text{ft}) = -2.64(Q^2, \text{gpm}^2) + 2.07(Q, \text{gpm}) + 69.$	8A