Lab 1 rubric

|  |  |  |  |
| --- | --- | --- | --- |
| Requirement | | Possible points | Earned points |
|  | | | |
| Correct title at top of graph | | 7 |  |
| Correct label on both axes | | 12 |  |
| Both axes have graduations that are scaled appropriately | | 4 |  |
| All 10 points have been graphed | | 2 |  |
| A best fit line has been added in a reasonable spot at a reasonable angle | | 3 |  |
| Appropriate points have been picked and labeled on your graph for calculating the slope and y-intercept | |  |  |
| Slope has been calculated with correct process and units | |  |  |
|  | Starting with correct formula |  |  |
|  | Inputting '*qn*' values appropriately |  |  |
|  | Calculating units correctly |  |  |
|  | Performing arithmetic correctly |  |  |
| y-intercept has been calculated with correct process and units | |  |  |
|  | Starting with correct formula |  |  |
|  | Inputting '*qn*' values appropriately |  |  |
|  | Calculating units correctly |  |  |
|  | Performing arithmetic correctly |  |  |
| Overall neatness and presentation (final answers are clearly delineated and easy to find | |  |  |
|  | Subtotal |  |  |
|  | | | |
| Correct modification was performed on the data set | | 1 |  |
| Correct title at top of graph | | 3 |  |
| Correct label on both axes | | 6 |  |
| Both axes have graduations that are scaled appropriately | | 4 |  |
| All 10 points have been graphed | | 1 |  |
| A best fit line has been added in a reasonable spot at a reasonable angle | | 3 |  |
| Appropriate points have been picked and labeled on your graph for calculating the slope and y-intercept | | 4 |  |
| Slope has been calculated with correct process and units | |  |  |
|  | Starting with correct formula | 2 |  |
|  | Inputting '*qn*' values appropriately | 4 |  |
|  | Calculating units correctly | 4 |  |
|  | Performing arithmetic correctly | 1 |  |
| y-intercept has been calculated with correct process and units | |  |  |
|  | Starting with correct formula | 2 |  |
|  | Inputting 'qn' values appropriately | 4 |  |
|  | Calculating units correctly | 4 |  |
|  | Performing arithmetic correctly | 1 |  |
| q-value is calculated correctly with correct process and units | |  |  |
|  | Starting with correct formula | 2 |  |
|  | Inputting '*qn*' values appropriately | 4 |  |
|  | Calculating units correctly | 4 |  |
|  | Performing arithmetic correctly | 1 |  |
| Overall neatness and presentation (final answers are clearly delineated and easy to find | | 5 |  |
|  | Subtotal | 60 |  |
|  | | | |
| Correct modification was performed on the data set | | 1 |  |
| Correct title at top of graph | | 3 |  |
| Correct label on both axes | | 6 |  |
| Both axes have graduations that are scaled appropriately | | 4 |  |
| All 10 points have been graphed | | 1 |  |
| A best fit line has been added in a reasonable spot at a reasonable angle | | 3 |  |
| Appropriate points have been picked and labeled on your graph for calculating the slope and y-intercept | | 4 |  |
| Slope has been calculated with correct process and units | |  |  |
|  | Starting with correct formula | 2 |  |
|  | Inputting '*qn*' values appropriately | 4 |  |
|  | Calculating units correctly | 4 |  |
|  | Performing arithmetic correctly | 1 |  |
| y-intercept has been calculated with correct process and units | |  |  |
|  | Starting with correct formula | 2 |  |
|  | Inputting '*qn*' values appropriately | 4 |  |
|  | Calculating units correctly | 4 |  |
|  | Performing arithmetic correctly | 1 |  |
| q-value is calculated correctly with correct process and units | |  |  |
|  | Starting with correct formula | 2 |  |
|  | Inputting '*qn*' values appropriately | 4 |  |
|  | Calculating units correctly | 4 |  |
|  | Performing arithmetic correctly | 1 |  |
| Overall neatness and presentation (final answers are clearly delineated and easy to find | | 5 |  |
|  | Subtotal | 60 |  |
| Total | | 185 |  |
|  | |  |  |