**EQ: How is the equation for a parallel or perpendicular linear function written given 2 points on the line?**

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| **Steps** | **Example 1** | **Example 2** | **Example 3** |
| 1) Find original slope (*m*).  | Find the equation of a line parallel to y = -2x + 5 and through (6, -2). | Given y = -3x + 4, find the equation of a line perpendicular and through (6, -2). |  |
| 2) Determine the needed slope (parallel or perpendicular). |  |  |  |
| 3) Put slope in for *m* in *y = mx + b*. |  |  |  |
| 4) Choose one point and substitute these values for x and y. |  |  |  |
| 5) Solve for *b*. |  |  |  |
| 6) Rewrite *y = mx + b* with slope and y-intercept values. |  |  |  |

**EQ: How is the equation for a linear function written given 2 points on the line?**

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| **Steps** | **Example 1** | **Example 2** | **Example 3** |
| 1) Find \_\_\_\_\_\_\_\_\_ (*m*). | (1, 7) and (5, 3) | (-5, 4) and (-6, 2) | (0, 3) and (-1, 3) |
| 2) Put \_\_\_\_\_\_\_\_\_ in for *\_\_\_\_* in *y = mx + b*. |  |  |  |
| 3) Choose one point and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ these values for x and y. |  |  |  |
| 4) Solve for *\_\_\_\_\_*. |  |  |  |
| 5) Rewrite *y = mx + b* with \_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ values. |  |  |  |