***MPM 1D – Graphs and Equations of Lines*** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Find the equation of each line in either the form or .

In both cases, you will need the slope and y-intercept.

|  |  |
| --- | --- |
| 1.
 | 1.
 |
| 1.
 | 1.
 |
| 1.
 | 1.
 |
| 1.
 | 1.
 |
| 1.
 | 1.
 |
| 1.
 | 1.
 |

Graph each line. Start with the y-intercept, then use the slope to find other points.

|  |  |
| --- | --- |
| 1.
 | 1.
 |
| 1.
 | 1.
 |
| 1.
 | 1.
 |
| 1.
 | 1.
 |
| 1. x = –2
 | 1.
 |
| 1.
 | 1.
 |

Find the equation of a line that:



|  |  |
| --- | --- |
| 1. Has a y-intercept of 2, and passes through the point (2,3)
 | 1. Has a y-intercept of 3, and passes through the point (1, 1)
 |
| 1. Has a slope of , and passes through the point (–4, 1)
 | 1. Has a slope of , and passes through the point (3, –2)
 |
| 1. Has a slope of , and passes through the point (2, 5)
 | 1. Passes through the points (–2, 1) and (2, 3)
 |
| 1. Passes through the points (1, 2) and (3, –4)
 | 1. Passes through the points (1, 4) and (8, 18)
 |

Add vertical and horizontal lines