**Write the slope of the line that is parallel to each line.**

|  |  |  |
| --- | --- | --- |
| 1. $y=2x-5$ **­­\_\_\_\_\_\_\_**
 | 1. $y=\frac{3}{4}x+7$ **\_\_\_\_\_\_\_**
 | 1. $2x-4y=12$ **\_\_\_\_\_\_**
 |

**Write the slope of the line that is perpendicular to each line.**

|  |  |  |
| --- | --- | --- |
| 1. $y=2x-5$ **­­\_\_\_\_\_\_\_**
 | 1. $y=\frac{3}{4}x+7$ **\_\_\_\_\_\_\_**
 | 1. $2x-4y=12$ **\_\_\_\_\_\_**
 |

1. **Write an equation in Slope-Intercept form of the line that is parallel to y = 5x + 12**
2. **Write an equation in Slope-Intercept form of the line that is perpendicular to y = 3x – 22**
3. **Write the equation in Slope-Intercept form of the line parallel and line perpendicular to given line through given point.**

|  |  |  |
| --- | --- | --- |
|  | **Parallel** | **Perpendicular** |
| 1. $y=\frac{1}{2}x+10$

$$(-5 , 2)$$ |  |  |
| 1. $y=-\frac{4}{3}x+\frac{1}{2}$

$$(-5 , 2)$$ |  |  |
| 1. $x-3y=4$

$$(-5 , 2)$$ |  |  |

1. **Write an equation in Slope-Intercept form of the line that is parallel to 3x – 9y = -2 and goes through the point (6 , -4).**
2. **Write an equation in Slope-Intercept form of the line that is perpendicular to 4x – 2y = -2 and goes through the point (-3 , -7)**