

Show all work/steps in a neat, organized manner. All work must be shown!!

Write the equation of the line whose information is given. (Notice the variety of problems! Remember the 2 things you must ALWAYS find to write the equation of a line!)

1) Slope = 2, y-intercept = -2

2) Slope = -4, y-intercept = 3

3) Slope = $\frac{3}{5}$, y-intercept = -1

4) Slope = -5, y-intercept = 1

5) through: (2, -2), slope = 2

6) through: (-1, 1), slope = -3

7) through: (1, 0), slope = -1

8) through: (5, 5), slope = 2

9) through: $(3, -1)$ and $(0, -4)$

10) through: $(-5, 4)$ and $(-2, 1)$

11) through: $(0, -5)$ and $(1, -1)$

12) through: $(0, -1)$ and $(-1, -3)$

13) through: $(1, 1)$ and $(0, 5)$

14) through: $(0, 2)$ and $(1, -4)$

15) through: $(-1, 3)$, parallel to $y = -2x - 4$

16) through: $(-1, -5)$, parallel to $y = 4x - 2$

17) through: $(2, 0)$, parallel to $-x + y = -4$

18) through: $(2, -1)$, parallel to $4x + 2y = -2$

19) through: $(1, -3)$, perp. to $y = x - 1$

20) through: $(2, -1)$, perp. to $y = \frac{1}{2}x - 4$

21) through: $(-1, -1)$, perp. to $x + 6y = 6$

22) through: $(3, -5)$, perp. to $3x - 9y = -18$