Geometry Name_____ ID: 1

Equations of Parallel Lines

Date_____ Period____

Write the slope-intercept form of the equation of the line described.

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

2) through: $(5, -4)$, parallel to $y = -\frac{3}{5}x + 1$

3) through: $(0, -1)$, parallel to $y = \frac{5}{2}x - 3$

4) through: $(5, -1)$, parallel to $y = -\frac{6}{5}x - 3$

5) through: $(2, -5)$, parallel to $y = -\frac{5}{2}x + 4$

6) through: $(3, 2)$, parallel to $y = \frac{5}{3}x + 3$

7) through: $(5, 3)$, parallel to $y = \frac{3}{5}x - 2$

8) through: $(-4, 4)$, parallel to $y = -\frac{5}{4}x + 3$

9) through: $(1, 2)$, parallel to $y = 6x + 3$

10) through: $(-4, 1)$, parallel to $y = -\frac{3}{4}x + 1$

11) through: $(-5, 4)$, parallel to $y = -\frac{1}{5}x + 5$

12) through: $(-4, -1)$, parallel to $y = -\frac{1}{2}x - 4$

13) through: $(-3, -5)$, parallel to $y = \frac{5}{3}x - 2$

14) through: $(-2, -3)$, parallel to $y = \frac{5}{4}x + 2$

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

16) through: $(3, -1)$, parallel to $x = 0$

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Write the slope-intercept form of the equation of the line described.

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

$y = 4x - 5$

2) through: $(5, -4)$, parallel to $y = -\frac{3}{5}x + 1$

$y = -\frac{3}{5}x - 1$

3) through: $(0, -1)$, parallel to $y = \frac{5}{2}x - 3$

$y = \frac{5}{2}x - 1$

4) through: $(5, -1)$, parallel to $y = -\frac{6}{5}x - 3$

$y = -\frac{6}{5}x + 5$

5) through: $(2, -5)$, parallel to $y = -\frac{5}{2}x + 4$

$y = -\frac{5}{2}x$

6) through: $(3, 2)$, parallel to $y = \frac{5}{3}x + 3$

$y = \frac{5}{3}x - 3$

7) through: $(5, 3)$, parallel to $y = \frac{3}{5}x - 2$

$y = \frac{3}{5}x$

8) through: $(-4, 4)$, parallel to $y = -\frac{5}{4}x + 3$

$y = -\frac{5}{4}x - 1$

9) through: $(1, 2)$, parallel to $y = 6x + 3$

$y = 6x - 4$

10) through: $(-4, 1)$, parallel to $y = -\frac{3}{4}x + 1$

$y = -\frac{3}{4}x - 2$

11) through: $(-5, 4)$, parallel to $y = -\frac{1}{5}x + 5$

$y = -\frac{1}{5}x + 3$

12) through: $(-4, -1)$, parallel to $y = -\frac{1}{2}x - 4$

$y = -\frac{1}{2}x - 3$

13) through: $(-3, -5)$, parallel to $y = \frac{5}{3}x - 2$

$y = \frac{5}{3}x$

14) through: $(-2, -3)$, parallel to $y = \frac{5}{4}x + 2$

$y = \frac{5}{4}x - \frac{1}{2}$

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

$y = -4x - 5$

16) through: $(3, -1)$, parallel to $x = 0$

$x = 3$