Math 8 - Meets 3rd period today (A-day)

16-11-08-T8

Rewrite each equation in slope-intercept form.

1) $y + 2 = \frac{1}{3}(x + 5)$

2) $y - 2 = -\frac{7}{5}(x + 5)$

3) $y + 5 = -3(x - 1)$

4) $y - 4 = \frac{7}{2}(x - 1)$

5) $y + 2 = \frac{6}{5}(x + 5)$

6) $0 = x + 1$

Rewrite each equation in standard form.

7) $y + 2 = -2(x + 1)$

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

9) $y = -\frac{5}{3}(x - 3)$

10) $y - 5 = -\frac{9}{4}(x + 4)$

11) $y - 5 = -(x + 3)$

12) $y + 2 = -2(x - 1)$

Write the slope-intercept form of the equation of the line through the given point with the given slope.

13) through: $(1, -5)$, slope $= -10$

14) through: $(-3, 0)$, slope $= \frac{2}{3}$

Write the point-slope form of the equation of the line through the given point with the given slope.

15) through: $(4, -5)$, slope $= -\frac{3}{2}$

16) through: $(1, -5)$, slope $= -1$

Write the standard form of the equation of the line through the given point with the given slope.

17) through: $(3, -3)$, slope $= -\frac{6}{5}$

18) through: $(-5, -3)$, slope $= -\frac{2}{5}$

Write the point-slope form of the equation of the line through the given points.

19) through: $(-3, -2)$ and $(3, -3)$

20) through: $(0, 1)$ and $(-3, 2)$

21) through: $(3, 1)$ and $(5, -4)$

22) through: $(2, -2)$ and $(5, -3)$

23) through: $(-4, 5)$ and $(-4, 3)$

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

Write the standard form of the equation of the line through the given points.

25) through: $(-5, -5)$ and $(-2, -2)$

26) through: $(-1, 5)$ and $(3, 3)$

27) through: $(3, 0)$ and $(0, -3)$

28) through: $(-4, 4)$ and $(2, 2)$

29) through: $(-2, 4)$ and $(-1, 2)$

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

Write the slope-intercept form of the equation of the line through the given points.

31) through: $(1, 2)$ and $(5, -1)$

32) through: $(-4, 0)$ and $(5, 3)$

33) through: $(4, -3)$ and $(0, 4)$

34) through: $(4, 4)$ and $(-1, 0)$

35) through: $(-2, -5)$ and $(-3, -5)$

36) through: $(-2, -5)$ and $(-1, 3)$

Write the standard form of the equation of the line through the given points.

37) through: $(2, 1)$ and $(4, 4)$

38) through: $(5, 3)$ and $(0, -5)$

39) through: $(-2, 0)$ and $(0, -3)$

40) through: $(-4, 4)$ and $(-1, -3)$

41) through: $(1, -1)$ and $(-3, 3)$

42) through: $(5, 1)$ and $(-4, 1)$

43) through: $(-3, 0)$ and $(-4, -3)$

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

45) through: $(2, 3)$ and $(5, -4)$

46) through: $(-5, 4)$ and $(-4, -4)$

Answers to 16-11-08-T8

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

2) $y = -\frac{7}{5}x - 5$

3) $y = -3x - 2$

4) $y = \frac{7}{2}x + \frac{1}{2}$

5) $y = \frac{6}{5}x + 4$

6) $x = -1$

7) $2x + y = -4$

8) $2x + 3y = 17$

9) $5x + 3y = 15$

10) $9x + 4y = -16$

11) $x + y = 2$

12) $2x + y = 0$

13) $y = -10x + 5$

14) $y = \frac{2}{3}x + 2$

15) $y + 5 = -\frac{3}{2}(x - 4)$

16) $y + 5 = -(x - 1)$

17) $6x + 5y = 3$

18) $2x + 5y = -25$

19) $y + 2 = -\frac{1}{6}(x + 3)$

20) $y - 1 = -\frac{1}{3}x$

21) $y - 1 = -\frac{5}{2}(x - 3)$

22) $y + 2 = -\frac{1}{3}(x - 2)$

23) $0 = x + 4$

24) $y + 5 = -10(x - 1)$

25) $x - y = 0$

26) $x + 2y = 9$

27) $x - y = 3$

28) $x + 3y = 8$

29) $2x + y = 0$

30) $x + 2y = -2$

31) $y = -\frac{3}{4}x + \frac{11}{4}$

32) $y = \frac{1}{3}x + \frac{4}{3}$

33) $y = -\frac{7}{4}x + 4$

34) $y = \frac{4}{5}x + \frac{4}{5}$

35) $y = -5$

36) $y = 8x + 11$

37) $3x - 2y = 4$

38) $8x - 5y = 25$

39) $3x + 2y = -6$

40) $7x + 3y = -16$

41) $x + y = 0$

42) $y = 1$

43) $3x - y = -9$

44) $10x + y = -5$

45) $7x + 3y = 23$

46) $8x + y = -36$