

The deadline for all homework assignments is the one specified in Archie before 11:59 pm. As discussed in class, It must be correctly uploaded in order to be graded. Show all your work and justifications.

For Exercises 73–82,

a. Use slope-intercept form to write an equation of the line that passes through the given point and has the given slope.

b. Write the equation using function notation where $y = f(x)$.

73. $(0, 9); m = \frac{1}{2}$ a. $y = \frac{1}{2}x + 9$ b. $f(x) = \frac{1}{2}x + 9$

74. $(0, -4); m = \frac{1}{3}$ a. $y = \frac{1}{3}x - 4$ b. $f(x) = \frac{1}{3}x - 4$

75. $(1, -6); m = -3$ a. $y = -3x - 3$ b. $f(x) = -3x - 3$

77. $(-5, -3); m = \frac{2}{3}$ a. $y = \frac{2}{3}x + \frac{1}{3}$ b. $f(x) = \frac{2}{3}x + \frac{1}{3}$

78. $(-4, -2); m = \frac{3}{2}$ a. $y = \frac{3}{2}x + 4$ b. $f(x) = \frac{3}{2}x + 4$

79. $(2, 5); m = 0$ a. $y = 5$ b. $f(x) = 5$

81. $(3.6, 5.1); m = 1.2$ a. $y = 1.2x + 0.78$ b. $f(x) = 1.2x + 0.78$

82. $(1.2, 2.8); m = 2.4$ a. $y = 2.4x - 0.08$ b. $f(x) = 2.4x - 0.08$

76. $(2, -8); m = -5$ a. $y = -5x + 2$ b. $f(x) = -5x + 2$

80. $(-1, -3); m = 0$ a. $y = -3$ b. $f(x) = -3$

For Exercises 83–86,

a. Use slope-intercept form to write an equation of the line that passes through the two given points.

b. Then write the equation using function notation where $y = f(x)$.

83. $(4, 2)$ and $(0, -6)$ 84. $(-8, 1)$ and $(0, -3)$ 85. $(7, -3)$ and $(4, 1)$

86. $(2, -4)$ and $(-1, 3)$