

Corrective Assignment

Write the POINT-SLOPE FORM of the equation of the line through the given points.

1. (3, -4) and (-4, 3)

2. (-4, -5) and (-5, -4)

Write the POINT-SLOPE FORM of the equation of the line through the given point with the given slope.

3. (2, -1) and $m = -\frac{1}{3}$

4. (1, 0) and $m = \frac{1}{2}$

Write the SLOPE-INTERCEPT FORM of the equation of the line through the given points.

5. (-5, 5) and (3, -3)

6. (2, -2) and (0, -1)

Write the SLOPE-INTERCEPT FORM of the equation of the line through the given point with the given slope.

7. (-2, 5) and $m = -\frac{5}{2}$

8. (-4, 1) and $m = -\frac{1}{4}$

Write the SLOPE-INTERCEPT FORM of the equation of the line described.

9. through (3, -2) and parallel to $y = -x + 5$

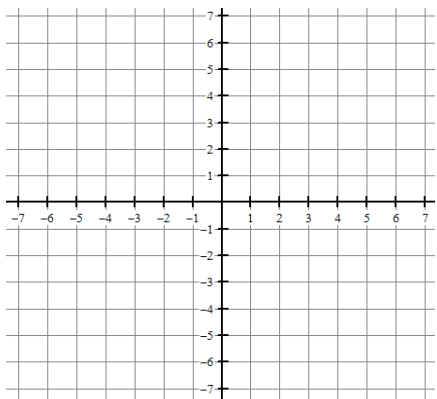
10. through (-5, 5) and parallel to $y = -\frac{4}{5}x + 3$

11. through (-2, 0) and perpendicular to $y = -x - 5$

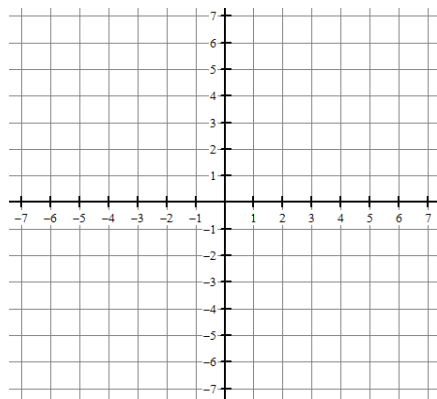
12. through (5, -3) and perpendicular to $y = \frac{5}{6}x + 5$

Graph the following.

13. $3x + y = 1$



14. $5x - 4y = 4$



REGRESSION

The table below is a random sample of teachers' salary from Ohio.

Years Experience	Salary (\$)
2	38,000
2	40,000
2	39,500
4	42,000
4	44,000
4	44,300
5	46,000
5	47,000
8	54,500
10	60,000
10	58,500
12	63,000
12	66,000
15	72,000
15	71,000

- Find a model that fits the data.(linear, quadratic, exponential, abs. value, etc..)
- Use regression and write the equation of your model. $y =$
- Use the model to salary of a teacher with 13 years' experience.
- Predict the experience of a teacher making \$41,000

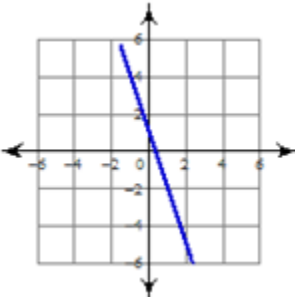
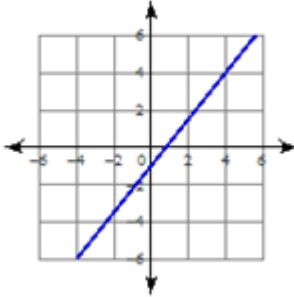
WINDOW

xmin= ymin=

xmax= ymax=

xscl= yscl=

ANSWERS TO 1.2 CORRECTIVE ASSIGNMENT

1. $y + 4 = -(x - 3)$	2. $y + 5 = -(x + 4)$	3. $y + 1 = -\frac{1}{3}(x - 2)$	4. $y = \frac{1}{2}(x - 1)$
5. $y = -x$	6. $y = -\frac{1}{2}x - 1$	7. $y = -\frac{5}{2}x$	8. $y = -\frac{1}{4}x$
9. $y = -x + 1$	10. $y = -\frac{4}{5}x + 1$	11. $y = x + 2$	12. $y = -\frac{6}{5}x + 3$
13. 	14. 	15. a. linear b. $y = 2530.57x + 33829.17$ c. \$66,726.55 d. 2.834 years	