What Did the Policeman Tell The Burglar in the Bathroom?

Find the answer for each exercise in the adjacent answer columns. Write the letter of the exercise in the box containing the number of the answer.

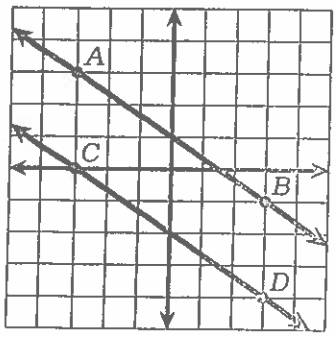
Part 1. Write the equation of the line indicated.

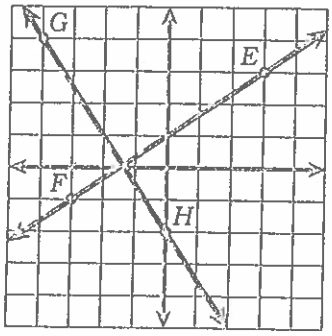
U Equation of $\overleftrightarrow{AB}$

O Equation of $\overleftrightarrow{CD}$

I Equation of $\overleftrightarrow{EF}$

S Equation of $\overleftrightarrow{GH}$





Part 1 Answers

11	$y = \frac{2}{3}x + 1$
17	$y = -\frac{2}{3}x + 1$
24	$y = -\frac{3}{2}x - 2$
20	$y = -\frac{3}{2}x + 1$
2	$y = -\frac{2}{3}x - 2$

Part 2. Write the slope of a line parallel to the given line.

T $y = \frac{7}{4}x - 2$

U $y = 8 - 3x$

O $-5x + y = 12$

A $4x + 7y = 21$

Part 2 Answers

18	$\frac{12}{5}$	**8**	$\frac{7}{4}$	**10**	$-\frac{7}{4}$
6	5	**21**	$-\frac{4}{7}$	**26**	-3

Part 3. Write the slope of a line perpendicular to the given line.

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

H $y = 6x + 11$

O $2x + 5y = 40$

T $8x - 3y = 15$

Part 3 Answers

3	$\frac{5}{4}$	**23**	$-\frac{3}{8}$	**13**	$-\frac{1}{6}$
16	$\frac{5}{2}$	**4**	$\frac{4}{5}$	**15**	$-\frac{8}{3}$

Part 4. Write an equation for the line that is parallel to the given line and that contains the given point.

W $y = 3x - 4; (2, 7)$

Y $y = -\frac{1}{2}x + 5; (4, -5)$

G $4x + y = -9; (-2, 9)$

R equation → $(-3, -8)$ and $(0, -3)$

P equation → $(-4, 0)$ and $(2, -6)$

Part 4 Answers

1	$y = -4x + 1$	18	$y = \frac{5}{3}x - 3$
12	$y = -\frac{1}{2}x - 1$	10	$y = 3x + 1$
9	$y = -x + 2$	19	$y = -4x - 7$
15	$y = -\frac{1}{2}x - 3$	27	$y = -x - 4$
7	$y = 3x - 2$	14	$y = \frac{5}{3}x - 8$

Part 5. Write an equation for the line that is perpendicular to the given line and that contains the given point.

U $y = -\frac{1}{3}x + 4; (2, 5)$

T $y = \frac{2}{5}x - 3; (2, -3)$

P $y = \frac{x}{4} + 15; (-3, 7)$

M $3x + 2y = -10; (-9, -2)$

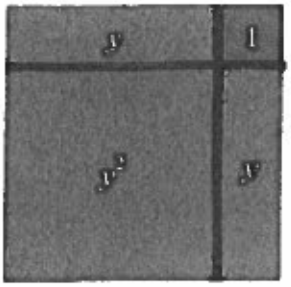
N $5x - y = 16; (0, 0)$

Part 5 Answers

14	$y = -\frac{5}{2}x + 7$	3	$y = \frac{2}{3}x + 4$
20	$y = -4x - 5$	25	$y = 3x - 5$
9	$y = -\frac{1}{5}x + 5$	12	$y = -\frac{5}{2}x + 2$
19	$y = -4x - 3$	7	$y = 3x - 1$
22	$y = -\frac{1}{5}x$	5	$y = \frac{2}{3}x + 6$

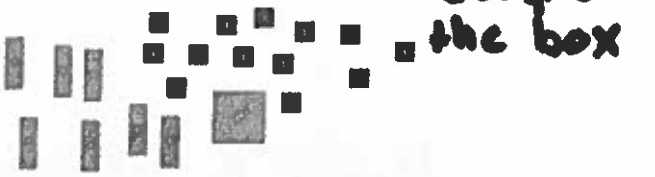
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27

Write the equation that you can make from the tiles below and what it's equal to.
Here's an example $(x + 2)(x + 3) = x^2 + 5x + 6$:



Bonus - Just try

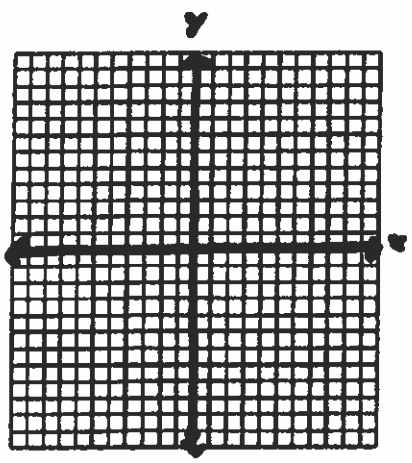
Sketch a rectangle using all of the tiles listed below.
Write an equation to show the area written as a product and what it's equal to. Here's an example
$(x + 2)(x + 3) = x^2 + 5x + 6$



Complete the box

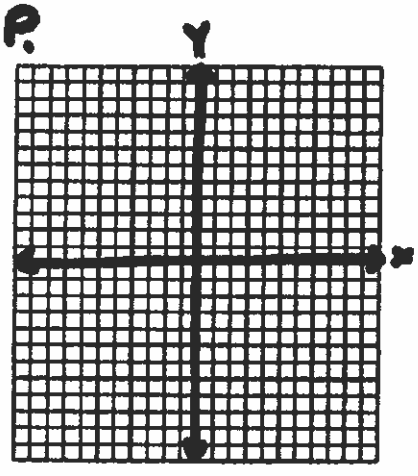
Part 4

Y.



Part 4

P.



Part 5

4.