

Snow Day #1

Show your work.

CRYPTIC QUIZ

1. Why does Beethoven now spend all his time erasing music?

$\frac{\quad}{16}$ $\frac{\quad}{6}$ $\frac{\quad}{-4}$ $\frac{\quad}{10}$ $\frac{\quad}{-3}$ $\frac{\quad}{6}$ $\frac{\quad}{-9}$ $\frac{\quad}{7}$ $\frac{\quad}{20}$ $\frac{\quad}{-5}$ $\frac{\quad}{7}$ $\frac{\quad}{10}$ $\frac{\quad}{-4}$ $\frac{\quad}{3}$ $\frac{\quad}{21}$

2. What is it called when a sea bird lands on a channel marker?

$\frac{\quad}{-36}$ $\frac{\quad}{9}$ $\frac{\quad}{7}$ $\frac{\quad}{-8}$ $\frac{\quad}{20}$ $\frac{\quad}{6}$ $\frac{\quad}{6}$ $\frac{\quad}{-2}$ $\frac{\quad}{10}$ $\frac{\quad}{21}$ $\frac{\quad}{9}$ $\frac{\quad}{11}$ $\frac{\quad}{11}$

3. How does a tree feel after a hard day at work?

$\frac{\quad}{-36}$ $\frac{\quad}{9}$ $\frac{\quad}{10}$ $\frac{\quad}{16}$ $\frac{\quad}{6}$ $\frac{\quad}{-3}$

TO DECODE THE ANSWERS TO THESE QUESTIONS:

Solve each equation below and find your answer in the code. Each time the solution appears, write the letter of that exercise above it.

(O) $8u = 3u + 35$

(N) $7y = 33 - 4y$

(E) $2x + 48 = 10x$

(T) $5t - 26 = 18t$

(I) $k = 8k + 28$

(G) $-30n = -27n - 63$

(H) $4x + 4 = 2x + 36$

(D) $9y - 1 = y - 25$

(P) $14p - 8 = 22 + 20p$

(L) $z + 81 = 9z - 7$

(Y) $39 - 12w = 7 - 16w$

(C) $-15v - 40 = 23 - 8v$

(M) $63 - x = 2x + 3$

(U) $3n + 46 = 1 + 8n$

(B) $12r - 18 = 13r + 18$

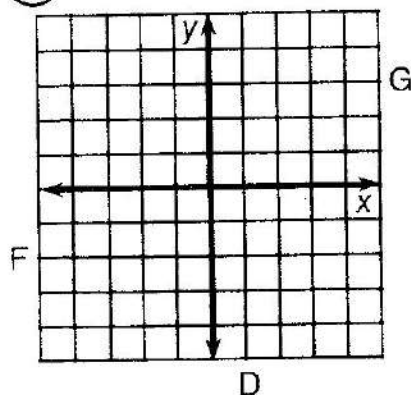
(S) $-x - 1 = x - 21$

Snow Day #2 Show your work.

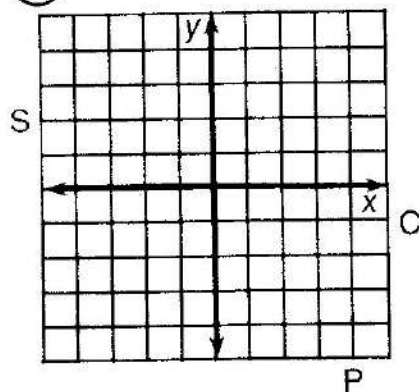
Why Did the Cow Want a Divorce?

Graph each equation below. The graph, if extended, will cross a letter. Look for this letter in the string of letters near the bottom of the page and CROSS IT OUT each time it appears. When you finish, write the remaining letters in the rectangle at the bottom of the page.

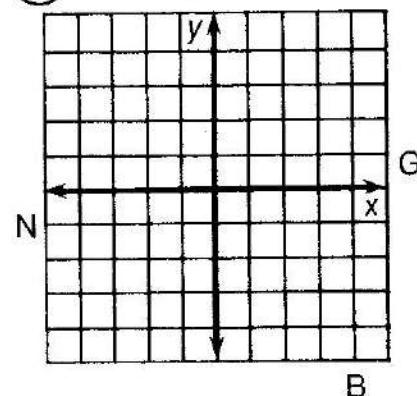
① $y = -2$



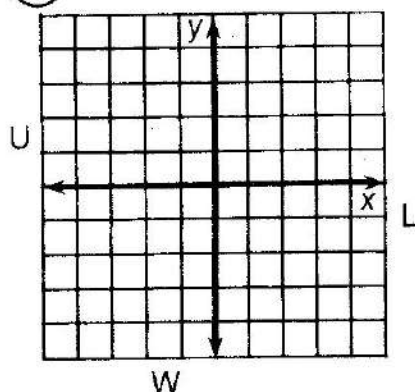
② $x = 4$



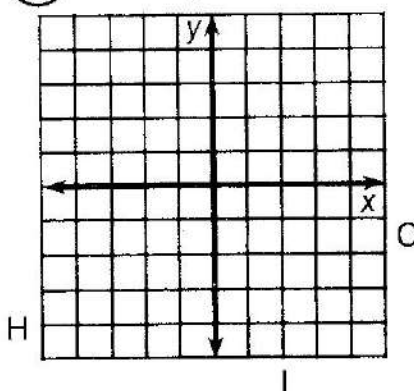
③ $2x - 3y = 9$



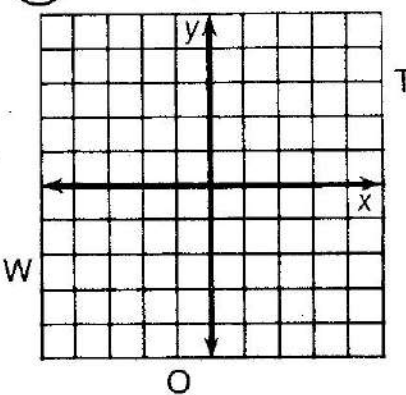
④ $x + 2y - 4 = 0$



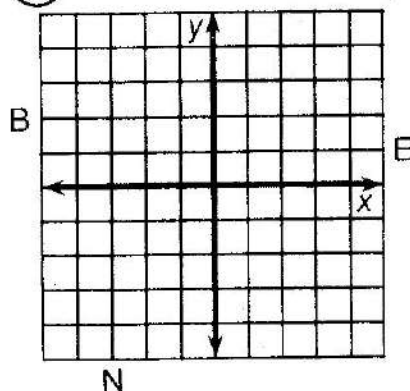
⑤ $3x + 4y = 12$



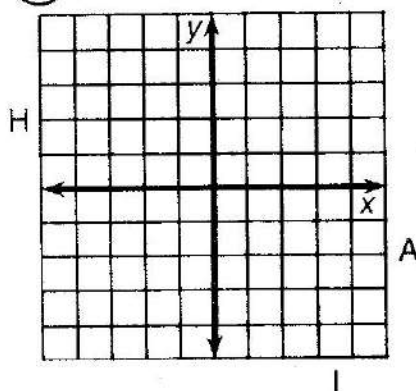
⑥ $6x - 5y + 20 = 0$



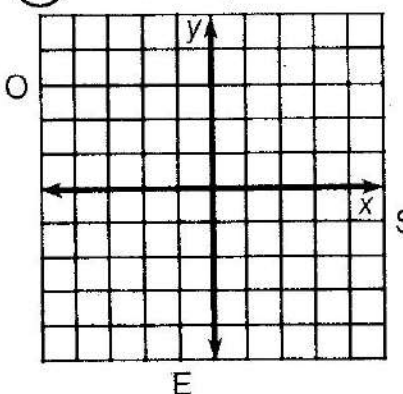
⑦ $x + 3 = 0$



⑧ $2x - 7 = 0$



⑨ $-2x = 2y + 5$



CSIHOWEHOFANDAPLBOIULFGMSIPTOWEIERN

Answer:

Snow Day #3

Show your work.

Why Do Girls Like Guys Who Wear Shirts With Eight Buttons?

Solve each equation below and find your solution at the bottom of the page.
Write the letter of that equation above the solution.

- (E) $4(5n - 7) = 10n + 2$
- (N) $9(x + 3) = 4x - 3$
- (A) $2(12 - 8x) = x - 11x$
- (H) $3t + 8(2t - 6) = 2 + 14t$
- (E) $2v + 18 = 16 - 4(v + 7)$
- (I) $4x - (9 - 3x) = 8x - 1$
- (T) $12(3 + y) = 5(2y + 8)$
- (A) $-7(1 - 4m) = 13(2m - 3)$
- (Y) $9(11 - k) = 3(3k - 9)$
- (S) $4x + 5(7x - 3) = 9(x - 5)$
- (T) $2(6d + 3) = 18 - 3(16 - 3d)$
- (F) $8(4u - 1) - 12u = 11(2u - 6)$
- (C) $-5 - (15y - 1) = 2(7y - 16) - y$



2	10	3	7	9	29	4	-1	1	-8	-6	-16	-12	-5

Snow Day #4 Show your work.

What Happens When the King of Beasts Runs in Front of a Train?

Draw a line connecting each inequality to the inequality for its solution set. The line will cross a number and a letter. Write the letter in the corresponding box at the bottom of the page.



- | | | |
|---------------------------------|----|----------------|
| 1 $-5x + 2 \leq 37$ • | | • $x \geq -20$ |
| 2 $3x - 10 > -22$ • | | • $x < 96$ |
| 3 $-9x - 4 \geq 95$ • | 7 | • $x > -80$ |
| 4 $\frac{x}{8} + 3 < 15$ • | 12 | • $x < -54$ |
| 5 $-\frac{x}{6} + 11 > 20$ • | 17 | • $x < -4$ |
| 6 $-\frac{1}{4}x - 1 \leq -9$ • | 3 | • $x < 6$ |
| 7 $5 + 16x < -59$ • | 5 | • $x > 96$ |
| 8 $\frac{1}{7}x + 2 \geq -11$ • | 10 | • $x \geq -7$ |
| 9 $15 - 4x \leq 95$ • | 13 | • $x > 21$ |
| 10 $\frac{2}{3}x - 20 > -6$ • | 14 | • $x \geq -11$ |
| 11 $1 - \frac{5}{2}x \leq 16$ • | 6 | • $x > -4$ |
| 12 $-4 + 11x \geq -125$ • | 1 | • $x > -54$ |
| 13 $-12x - 5 > -77$ • | 2 | • $x \geq 32$ |
| 14 $\frac{x}{27} + 10 > 8$ • | 4 | • $x \leq 0$ |
| 15 $-4 - \frac{3}{8}x < 26$ • | 15 | • $x \geq -6$ |
| 16 $13 - x \geq 33$ • | 18 | • $x \leq -11$ |
| 17 $-\frac{1}{16}x + 5 < -1$ • | 16 | • $x \leq -20$ |
| 18 $70x + 70 \leq 70$ • | 11 | • $x \geq -91$ |

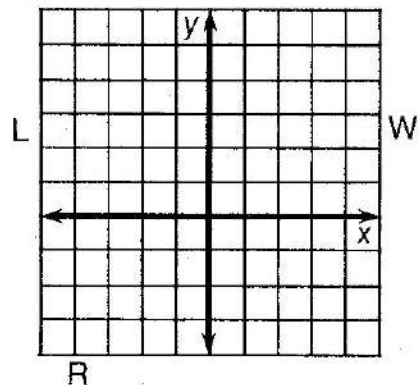
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
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Snow Day #5 Show your work.

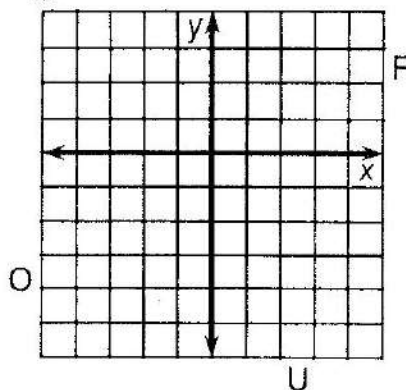
Why Does a Poor Man Drink Coffee?

Use the slope and y -intercept to graph each equation below. The graph, if extended, will cross a letter. Print this letter in each box that contains the number of that exercise.

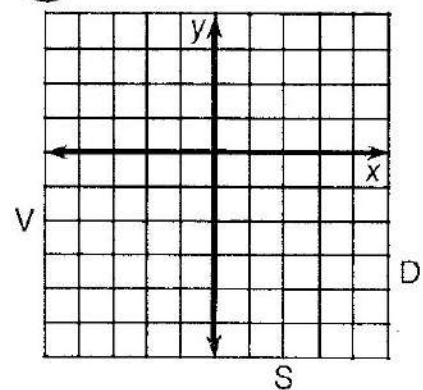
① $-3x + 2y = 2$



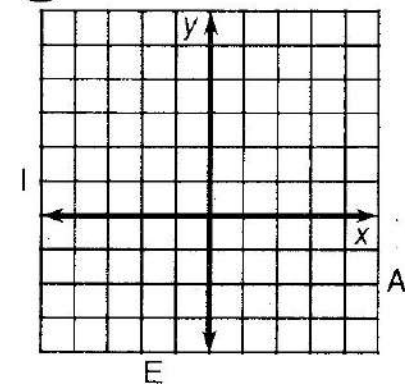
② $x - 4y = 8$



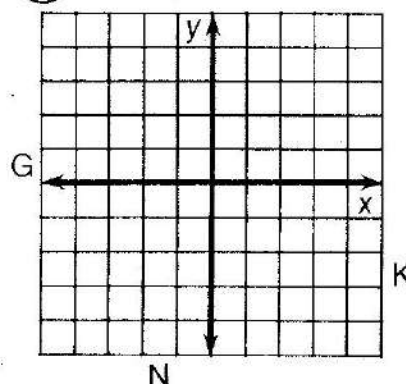
③ $2x + y = -3$



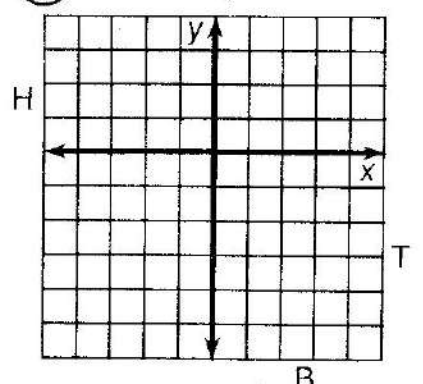
④ $2x + 3y = 6$



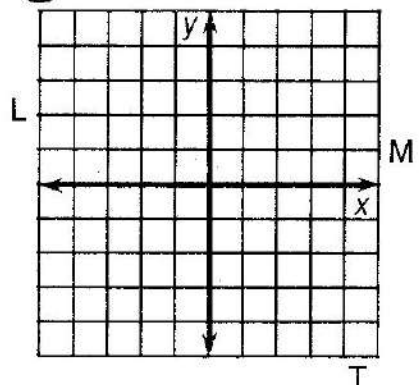
⑤ $3x - y = 1$



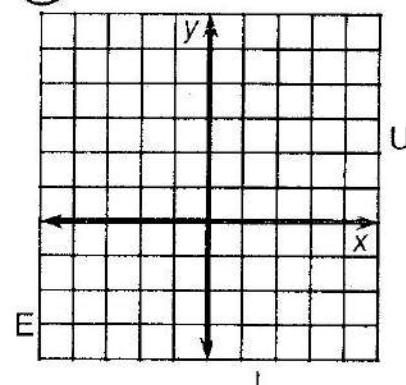
⑥ $-3x - 5y = 10$



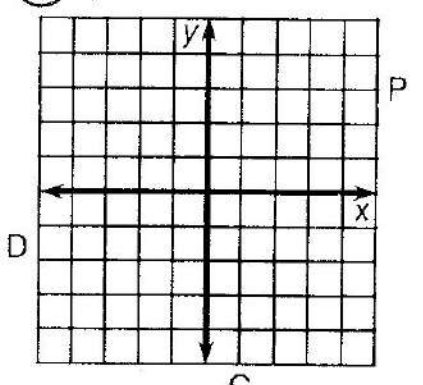
⑦ $4x + 3y = 0$



⑧ $2x - 2y + 5 = 0$



⑨ $y - 3 = 0$



6	8	6	4	3	5	2	9	1	2	9	8	1	7	8	4
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