

Assignment: T2-31 Equations from Scenario

Show your work!

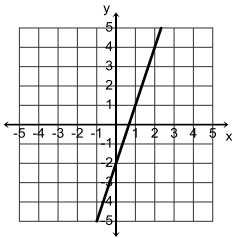
Formulas: $m = \frac{\text{rise}}{\text{run}} = \frac{y - y_1}{x - x_1}$

$y = mx + b$

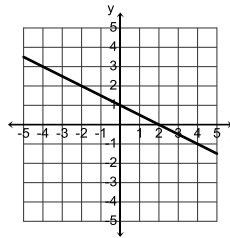
$y - y_1 = m(x - x_1)$

Write an equation in slope-intercept form using the given information about the line. Then match your answer with an equation on the right-hand side.

1.



2.



3.

| x | y |
|----|---|
| -2 | 0 |
| 0 | 3 |
| 2 | 6 |
| 4 | 9 |

4.

| x | y |
|----|----|
| -1 | 9 |
| 0 | 4 |
| 1 | -1 |
| 2 | -6 |

- A. $y = 2x + 5$
- B. $y = \frac{3}{2}x + 3$
- C. $y = -2x + 9$
- D. $y = -5x - 16$
- E. $y = \frac{1}{3}x + 6$
- F. $y = -\frac{1}{2}x - 5$
- G. $y = -2x + 10$
- H. $y = 2x - 7$
- I. $y = 3x + 6$
- J. $y = 3x - 2$
- K. $y = \frac{2}{3}x - 3$
- L. $y = -\frac{1}{2}x + 1$
- M. $y = -5x + 4$
- N. $y = \frac{3}{2}x - 2$
- O. $y = \frac{1}{4}x + 5$
- P. $y = -2x - 2$
- Q. $y = \frac{2}{3}x - 1$

5. Willie has \$10 and buys beef jerky for \$2 per ounce.

6. Uncle Si has already drunk 6 cups of tea and continues to drink his tea at a rate of one-third cup per hour.

7. $m = \frac{1}{4}$, point $(-8, 3)$

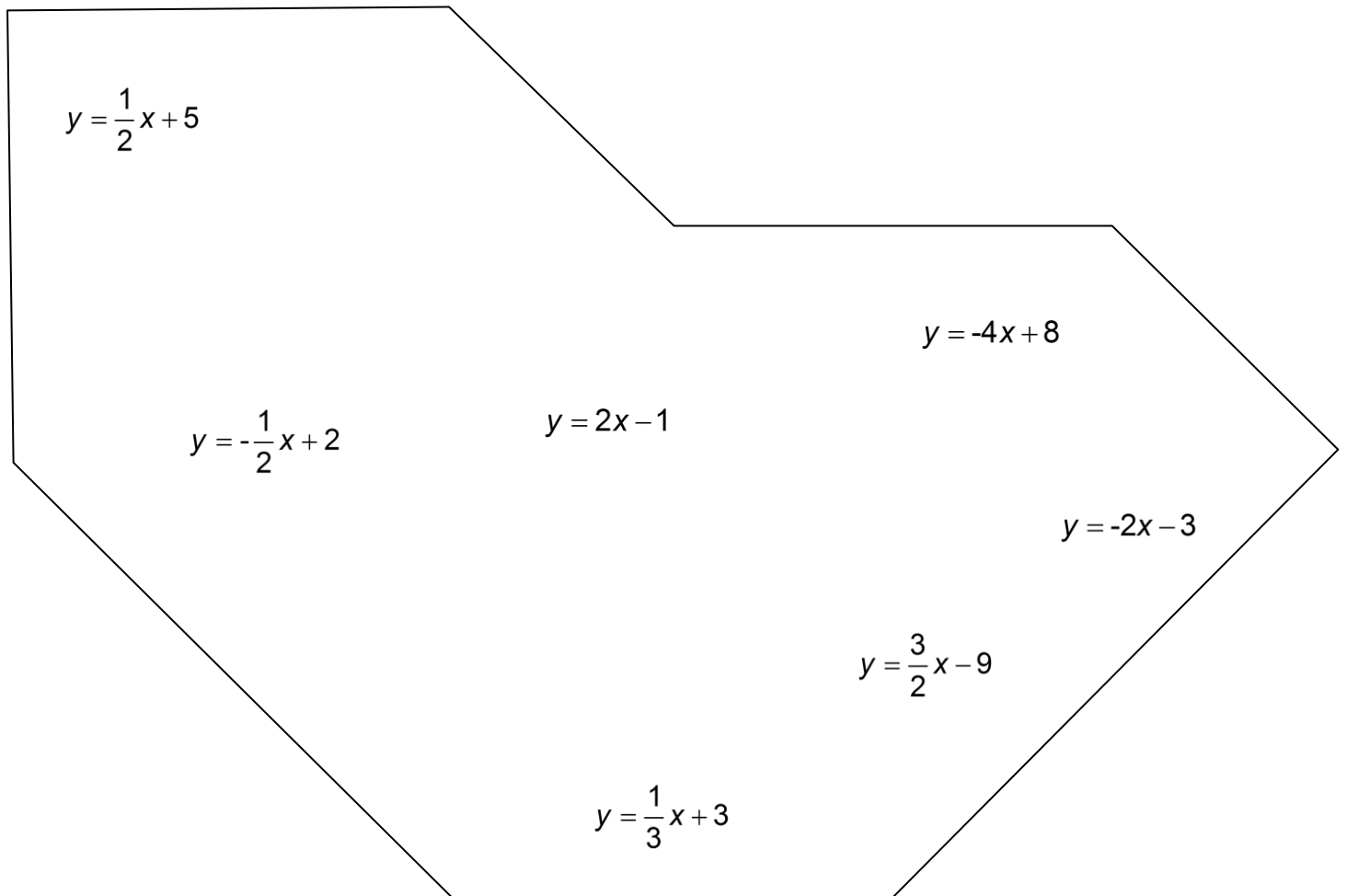
8. $m = 2$, point $(3, -1)$

9. points $(-4, -6)$ & $(2, 12)$

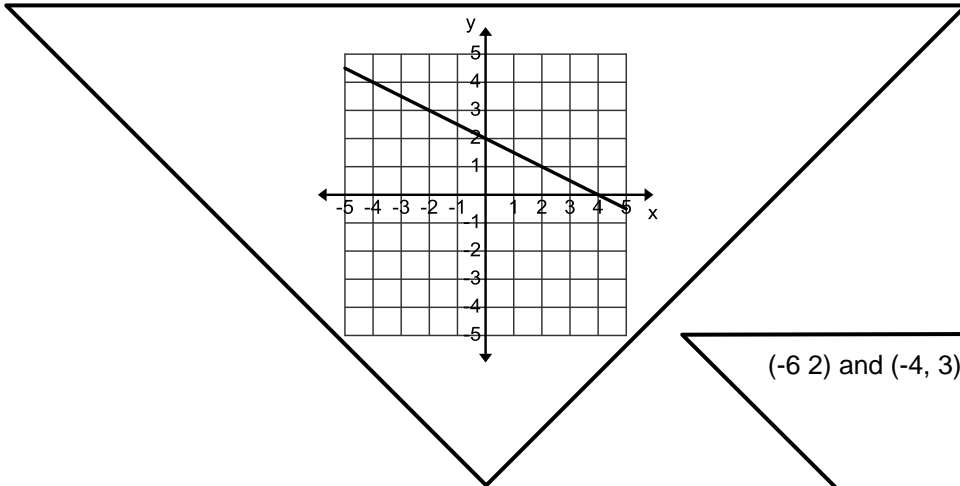
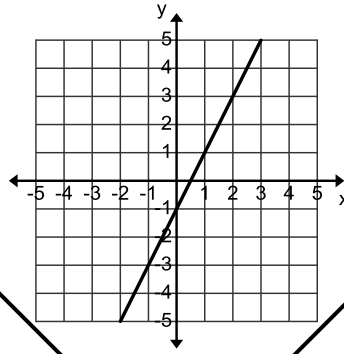
10. points $(-2, -4)$ & $(2, -6)$

Task: T2-31 Equations from Scenario

Do the problems on the tangram shapes on the last page. Use the tangram shapes to make the shape below. Be sure to match up the problems with the correct answers.



$m = \frac{1}{3}$, point: (-3, 2)



(-6, 2) and (-4, 3)

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

$m = -2$, point: (1, -5)

$m = \frac{3}{2}$, point: (4, -3)