

# Zen Math

Slope and Y-Intercept

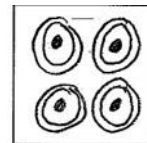
## Finding Slope and Y-Intercept Zen Math

**Directions:** Find the slope and y-intercept of each linear equation below. Then, find the space on the abstract picture below that matches your answer. Fill that space with the given pattern. Show your work on a separate sheet of paper.

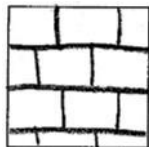
1.  $5x + 6y = -12$



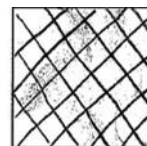
2.  $-2x + 5y = 10$



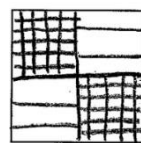
3.  $y = -\frac{2}{3}x - 2$



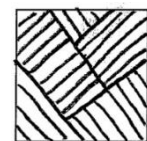
4.  $3x + y = -15$



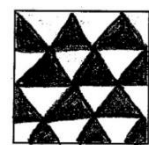
5.  $-3x + 2y = 6$



6.  $7x - 2y = -8$



7.  $-x + 4y = -16$



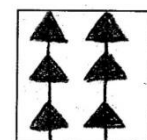
8.  $y = -\frac{4}{3}x + 1$



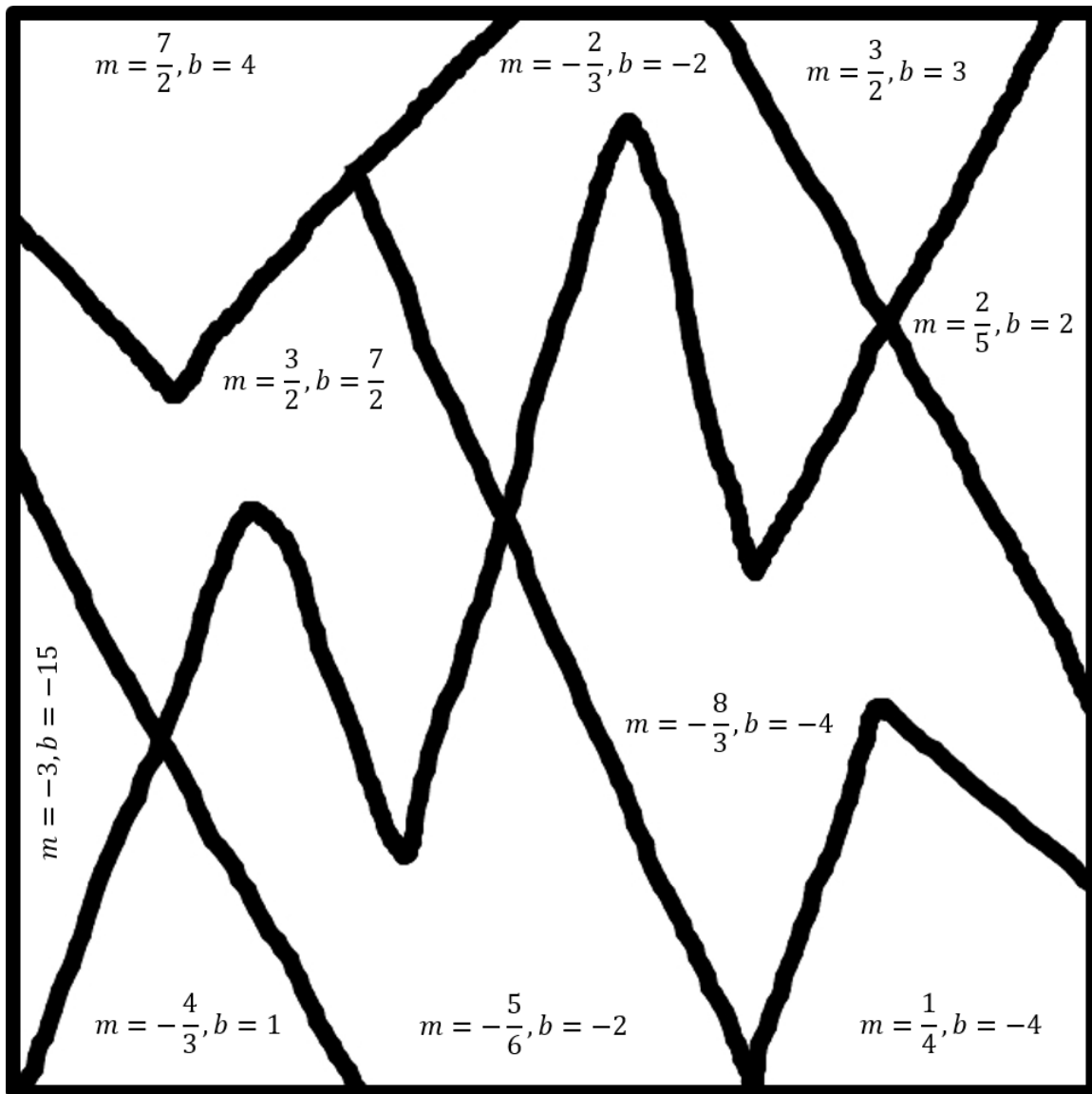
9.  $-3x + 2y = 7$



10.  $\frac{8}{3}x + y = -4$



Name \_\_\_\_\_ Date \_\_\_\_\_

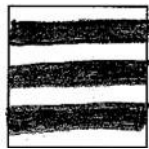


**Finding Slope and Y-Intercept Zen Math—Answer Key**

**Directions:** Find the slope and y-intercept of each linear equation below. Then, find the space on the abstract picture below that matches your answer. Fill that space with the given pattern. Show your work on a separate sheet of paper.

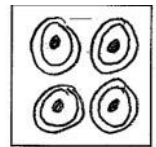
1.  $5x + 6y = -12$

$$m = -\frac{5}{6}, b = -2$$



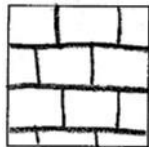
2.  $-2x + 5y = 10$

$$m = \frac{2}{5}, b = 2$$



3.  $y = -\frac{2}{3}x - 2$

$$m = -\frac{2}{3}, b = -2$$



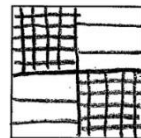
4.  $3x + y = -15$

$$m = -3, b = -15$$



5.  $-3x + 2y = 6$

$$m = \frac{3}{2}, b = 3$$



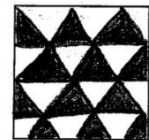
6.  $7x - 2y = -8$

$$m = \frac{7}{2}, b = 4$$



7.  $-x + 4y = -16$

$$m = \frac{1}{4}, b = -4$$



8.  $y = -\frac{4}{3}x + 1$

$$m = -\frac{4}{3}, b = 1$$



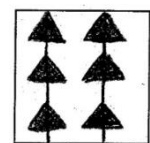
9.  $-3x + 2y = 7$

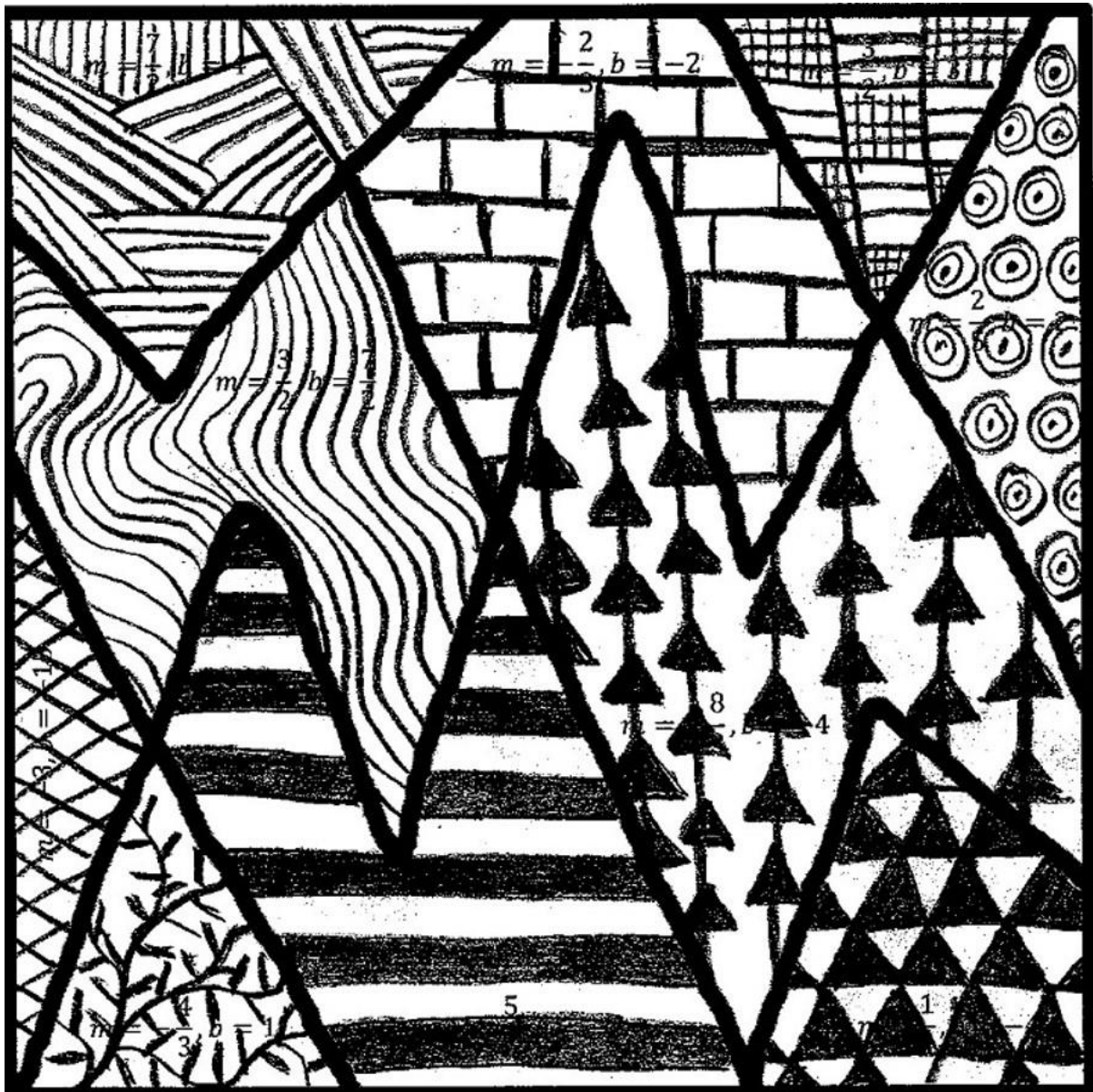
$$m = \frac{3}{2}, b = \frac{7}{2}$$



10.  $\frac{8}{3}x + y = -4$

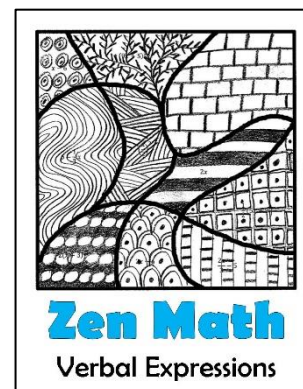
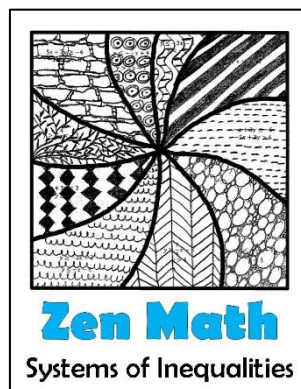
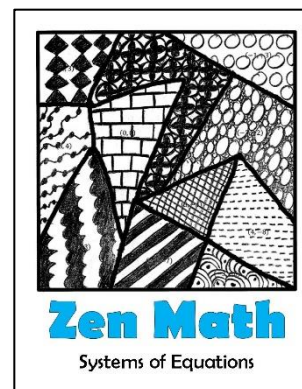
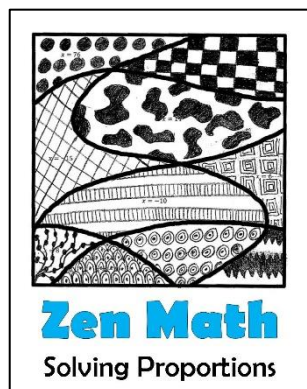
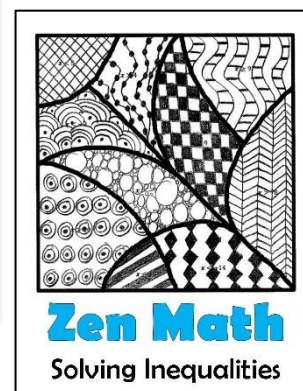
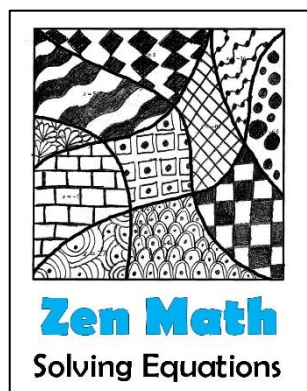
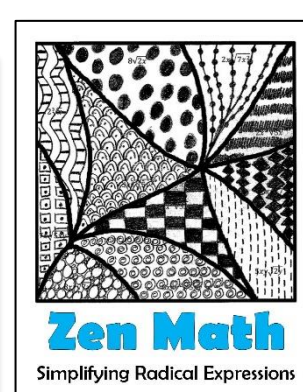
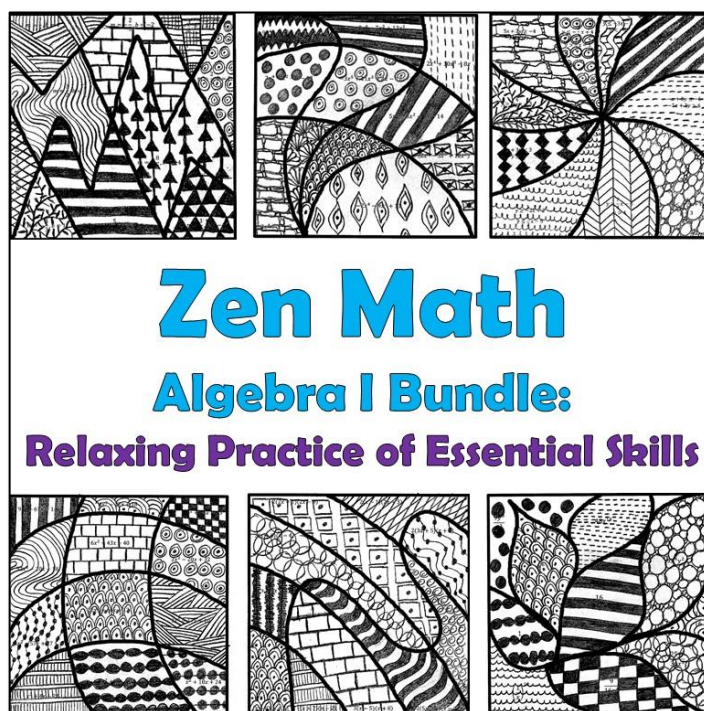
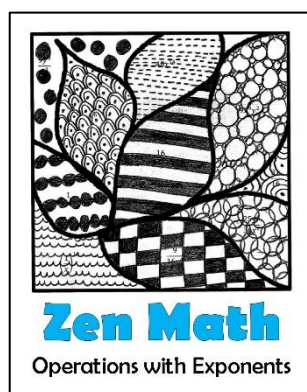
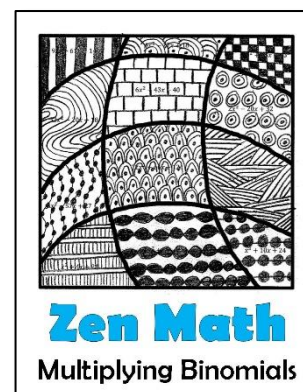
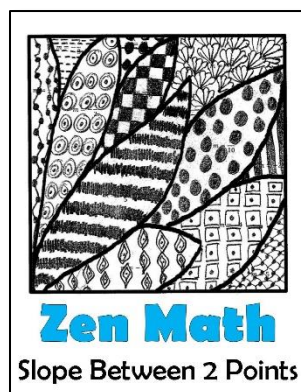
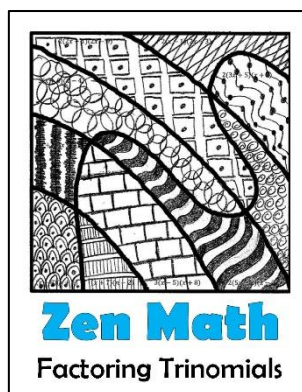
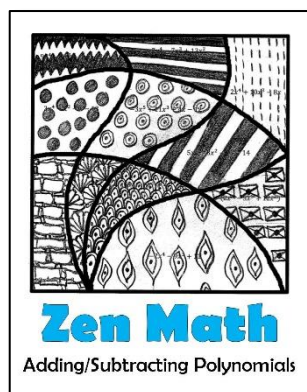
$$m = -\frac{8}{3}, b = -4$$

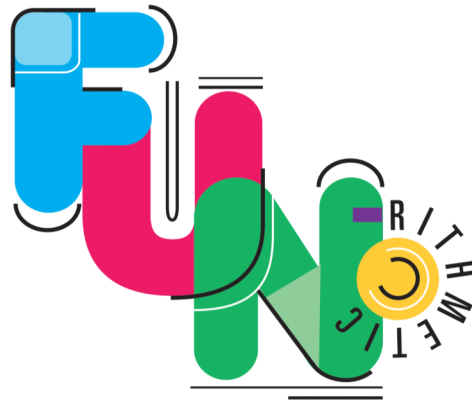






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