<u>Equivalent Complex Numbers Class Work</u>

🕊 **Objective:** *You will be able to determine values that satisfy equivalent complex expressions.*

✮ Consider the expression:

4xi – 5 = y – 16i.

<u>Think-Write-Pair-Share</u>
How could you determine the values of x and y?

Practice: Determine the values of the variables in each expression.

1. 1 + 3ri = 5ri – 8 + 2i + 4s

2. 2w – 8i + 1 = -3 – 64vi

3. $(i + 5)^2$ + n = 10i – 9

4. $m + (i - 3)^2 = -3(2i - 4)$

5. $9yi - 7 = 45i + 3x - i^2$

6. $4 - i^2 + 25hi = \text{-}\frac{1}{2}k - 100i$

7. $(2 + bi)(2 - bi) = -4$; challenge ☺

Create an acrostic poem in which each letter represents a phrase related to something you have learned about complex numbers.

I

M

A

G

I

N

E