

Equivalent Complex Numbers Homework

Directions: Be sure to show all work, communicate your thought process, and justify your reasoning. Remember to check that your answers are complete, correct, and reasonable. Do not forget to complete the "Throwback" problems! ☺

∞ **DETERMINE THE VALUES OF THE VARIABLES IN EACH EXPRESSION.**

1. $7yi - 9 + i^2 = 4i - 12x$

2. $(i - 2)^2 + p = 9 - 4i$

3. $2 - 4ki = 8ki - 13 + 10i - 3s$

4. $5t - 6i + 30 = -20 - 42vi$

5. $(i + 7)^2 + 2f = 14i - 29$

6. $(5i + 4)(5i - 4) + 5v - mi = -201 + 4i$

Solutions:

1. $x = -5/6, y = 4/7$

2. $p = 6$

3. $k = -5/6, s = 5$

4. $t = 10, v = 7$

5. $f = 9.5$

6. $m = -4, v = -32$