

GRADE 10

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Lesson 2-4 Complex Numbers

WORKSHEET

1) Find the values of x and y that make $5x + 1 + (3 + 2y)i = 2x - 2 + (y - 6)i$ true.

Real parts equal → 5x + 1 =

X =

Imaginary parts equal → = y – 6

Y =

2) Simplify

(−2 + 5i) + (1 − 7i)

= - i

(4 + 6i) − (−1 + 2i)

= + i

3) Simplify $(4 - i)(6 - 6i)$

= - i

4) Simplify $\frac{2 + i}{1 - i}$

= — + — i

LIVEWORKSHEETS