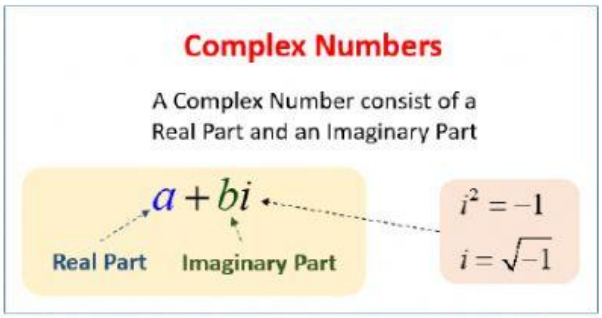

$$(a+bi)(a-bi) = a^2 + b^2$$

Lesson 2-4 Complex Numbers

WORKSHEET

1) Simplify

[redacted] $(-2 + 5i) + (1 - 7i)$

= - i

[redacted] $(4 + 6i) - (-1 + 2i)$

= 4 + 6i + -

= + i

2) Simplify using complex conjugate

$$\frac{2+i}{1-i} = \frac{2+i}{1-i} \cdot \frac{(\quad)}{(\quad)}$$

F O I L

= + i + i +

+

= + i

= — + — i

LIVEWORKSHEETS