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7th Grade Lesson 68

- I can use algebraic addition to simplify expressions.

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$| -3 | = 3$

$| 3 | = 3$

$-(-3)$
 3 is the opposite of -3
 -3 is the opposite of 3

$-(-3)$
 "the opposite of -3 "

$$7 - 3 = 4$$

Arithmetic says, "Seven minus three is four."

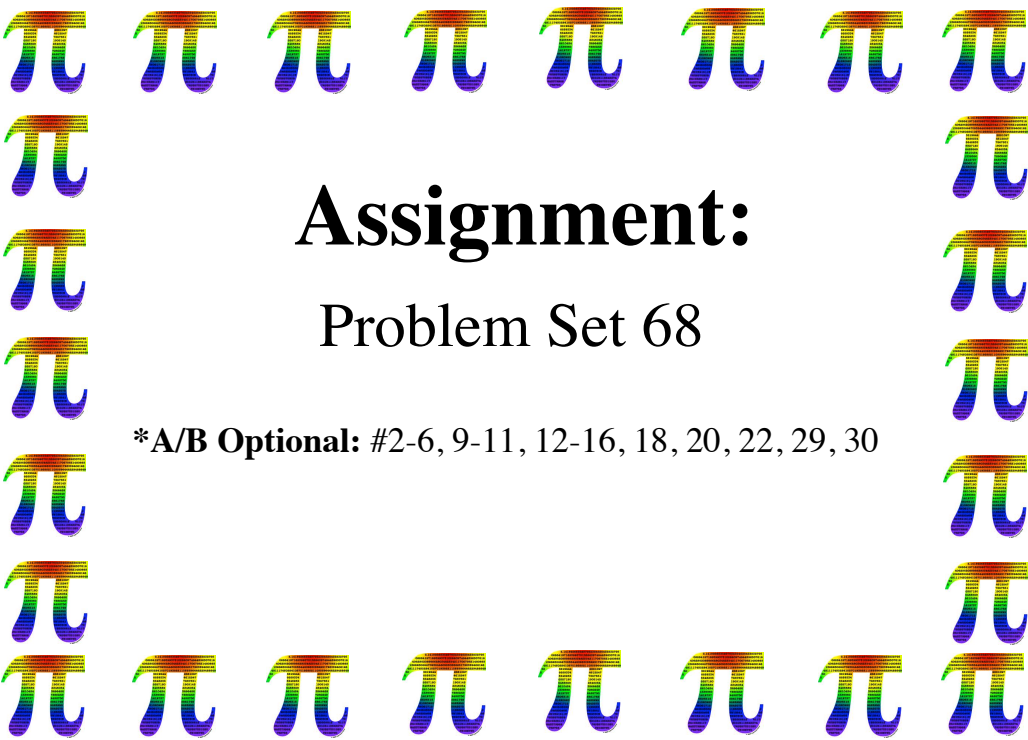
Another thought process is **Algebraic Addition** where we let the minus sign mean that -3 is a negative number and we treat the problem as an addition problem.

$$7 + (-3) = 4$$

$$\begin{aligned} & \textcircled{-3} - \textcircled{(-2)} \\ & (-3) + (2) \\ & \textcircled{-1} \end{aligned}$$

$$\begin{aligned} & \textcircled{-(-2)} - \textcircled{5} - \textcircled{(+6)} \\ & 2 + (-5) + (-6) \\ & 2 + (-11) \\ & \textcircled{-9} \end{aligned}$$

$$\begin{array}{c}
 (-3) - (+2) \\
 -3 + -2 \\
 -5 \\
 (-3) - (+2) - (-4) \\
 -3 + -2 + 4 \\
 -5 + 4 \\
 -1 \\
 (-8) - (+3) + (-2) \\
 -8 + -3 + -2 \\
 -11 + -2 \\
 -13
 \end{array}$$



Assignment:

 Problem Set 68

 *A/B Optional: #2-6, 9-11, 12-16, 18, 20, 22, 29, 30