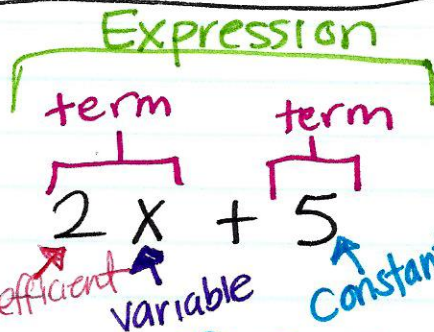


3.1 Algebraic Expressions

EQ: How can we simplify algebraic expressions?



Simplify by combining like terms

Example 1: $9x - 2 + 7 - x$

$9x - x = 8x$ (like terms)

$-2 + 7 = 5$ (like terms)

$8x + 5$

Example 2: $y + m - \frac{1}{6} - 4m + 3m^2 + \frac{5}{6}$

$3m^2$ (like terms)

$m - 4m = -3m$ (like terms)

$-\frac{1}{6} + \frac{5}{6} = \frac{4}{6} = \frac{2}{3}$ (like terms)

y (like terms)

$3m^2 - 3m + \frac{2}{3} + y$

Example 3: $7(x-1) + 2$

$7x - 7 + 2$

$7x - 5$