

6.3 Mixed Simplifying - Day 2

*** PEMDAS or GEMS

1. Parentheses — Look Directly in front
2. Exponents
3. Multiply or Divide
4. ADD AND SUBTRACT LAST

$$\begin{aligned} 1. & -4(2x - 3) + 5x - 7 \\ & -4(2x) - 4(-3) + 5x - 7 \\ & -8x + 12 + 5x - 7 \\ & -8x + 5x + 12 - 7 \\ & -3x + 5 \end{aligned}$$

$$\begin{aligned} 2. & b - 2[4b - (3a - 7)] \\ & b - 2[4b - 3a + 7] \\ & b - 2(4b) - 2(-3a) - 2(7) \\ & b - 8b + 6a - 14 \\ & 6a + b - 8b - 14 \\ & 6a - 7b - 14 \end{aligned}$$

$$\begin{aligned} 3. & 3m[4(5m - n) - (2m + 2n)] \\ & 3m[4(5m) + 4(-n) - 2m - 2n] \\ & 3m[20m - 4n - 2m - 2n] \\ & 3m(20m) + 3m(-4n) + 3m(-2m) + 3m(-2n) \\ & 60m^2 - 12mn - 6m^2 - 6mn \\ & 54m^2 - 18mn \\ 4. & 6x - [3x + 2(3x - 4) + 5] \\ & 6x - [3x + 2(3x) + 2(-4) + 5] \\ & 6x - [3x + 6x - 8 + 5] \\ & 6x - 3x - 6x + 8 - 5 \\ & -3x + 3 \end{aligned}$$

HOMEWORK

Worksheet - HW 6.3 Mixed
Simplifying Day 2