

Warm up:

Simplify.

$$1) 4(3f - 8)$$

$$12f - 32$$

$$2) -5(7c - 6)$$

$$-35c + 30$$

Combining Like Terms

like terms have the same variables to the same powers

$$7x$$

$$-3x$$

$$\frac{2}{3}x$$

$$-3.95x$$

$$5$$

$$-8$$

$$6\frac{2}{9}$$

$$-0.2$$

$$5.08$$

$$4x^2$$

$$-2x^2$$

$$-\frac{3}{5}x^2$$

$$0.79x^2$$

$$6x + 3x = 9x$$

$$\underline{7a} + \underline{2a} + 3A$$
$$9a + 3A$$

$$4b + b = 5b$$

$$y + y$$

$$2y$$

$$\underline{6a} + 2c + \underline{3a}$$

$$9a + 2c$$

$$\underline{4w} + 6 + \underline{7w}$$

$$11w + 6$$

$$\underline{-3x + 8} + \underline{7x - 10}$$

$$4x - 2$$

$$-x - 7x$$

$$\underline{-5 - x} + \underline{2 - 7x}$$

$$-8x - 3$$

$$5 + 2(3x + 6)$$

$$\underline{5} + 6x + \underline{12}$$

$$6x + 17$$

$$17 + 6x$$

$$4 - 3(5n + 8)$$

$$\underline{4} - 15n - \underline{24}$$

$$\textcircled{-15n - 20}$$

$$-3x - 5(6x - 7)$$

$$\underline{-3x - 30x + 35}$$

$$\underline{-33x + 35}$$

$$1) 6g - 8 + 9g$$

$$2) -5 - 2 + 7m + 1 - 2m$$

$$3) 6 + 4r - 4 + 5r - 2$$

$$4) -1 + 2(4a - 1)$$

$$5) 9p - 3(6p - 5)$$

$$1) \underline{6g} - 8 + \underline{9g}$$

$$15g - 8$$

$$2) \underline{-5} - \underline{2} + \underline{7m} + \underline{1} - \underline{2m}$$

$$-6 + 5m$$

$$5m - 6$$

$$3) \underbrace{6 + 4r} - \underbrace{4} + \underbrace{5r} - \underbrace{2}$$

$$9r$$

$$4) -1 + 2(4a - 1)$$

$$\underline{-1} + 8a - \underline{2}$$

$$8a - 3$$

$$5) 9p - 3(6p - 5)$$

$$\underline{9p} - \underline{18p} + 15$$

$$\textcircled{-9p + 15}$$