

W-PA Pre-Algebra Week 9 11/9

- 1.) $7 + 0 = 7$ identity - commutative (c)
- 2.) $3(a+b) = 3a + 3b$ distributive - associative (a)
- 3.) $8 * 9 = 9 * 8$ commutative - identity (ID)
- 4.) $4 * \frac{1}{4} = 1$ inverse - inverse (IN)
- 5.) $2 + (8+13) = (2+8)+13$ associative - distributive (d)
- 6.) $12 * 1 = 12$ identity
- 7.) $8 + (-8) = 0$ inverse

$$8(2a+3) = 8(2a) + 8(3)$$

$16a + 24$

$$1.) \quad -(5b-2) = \boxed{-5b+2}$$

$$2.) \quad 6(3x+8) = \boxed{18x+48}$$

$$3.) \quad -4(-3y-9) = \boxed{12y+36}$$

$$3(2x - 8) - 4(7x + 3)$$

Simplify

$$\boxed{6x} - 24 - \boxed{28x} - 12$$

COMBINE LIKE TERMS

$$6x - 28x \quad -24 - 12 \quad -24 + (-12)$$

$$\boxed{-22x - 36}$$

$$1.) -9(2x + 8) + 8(3x + 4)$$

$$\boxed{-18x} - 72 + \boxed{24x} + 32$$

$$\boxed{6x - 40}$$

$$2.) 7(4x - 2) + 5x$$

$$\boxed{28x} - 14 + \boxed{5x} = \boxed{33x - 14}$$

$$x + 5 = 8$$
$$-5 \quad -5$$

$$x = 3$$

$$x = 3$$

$$x - 8 = 11$$
$$+8 \quad +8$$

$$x = 19$$

$$2x = 18$$
$$\frac{2x}{2} = \frac{18}{2}$$

$$x = 9$$

$$3\left(\frac{x}{3}\right) = (7)3$$

$$x = 21$$

$$1.) \quad x - 9 = 2$$
$$+9 \quad +9$$

$$x = 11$$

$$2.) \quad \frac{8x}{8} = \frac{32}{8}$$

$$x = 4$$

$$3.) \quad \frac{x}{8} = (12)8$$

$$x = 96$$

$$4.) \quad x + 6 = 11$$
$$-6 \quad -6$$

$$x = 5$$

$$5.) \quad \frac{9x}{9} = \frac{54}{9}$$

$$x = 6$$

$$6.) \quad 3\left(\frac{x}{3}\right) = (17)3$$

$$x = 51$$

$$7.) \quad x + 7 = 13$$
$$-7 \quad -7$$

$$x = 6$$

$$8.) \quad x - 2 = -9$$
$$+2 \quad +2$$

$$x = -7$$

