Get your notes (piece of paper) out and a writing utensil to use for notes...

We are reviewing...and there will be a review quiz next week and taking notes will be extremely helpful (HINT...HINT!)

Adding and Subtracting Positive and Negative Numbers:

RULE: Same : ADD & Keep the sign

Different: SUBTRACT & keep the sign with the higher number

Examples:

$-4 + 6 =$ (2)

$-5 - 4 =$ $\boxed{-9}$

$10 - 12 =$ (-2)

Your Turn:

1) $-20-4=$ $-40-30=-70$

      -29

2) $6-9=-3$

3) $-2+10=8$

Multiplying and Dividing Positive and Negative Numbers:

RULE: SAME = POSITIVE

DIFFERENT = NEGATIVE

Examples:

$-4 \times 6 = -24$

$-5 \times -4 = 20$

$50 \div -10 = -5$

Your Turn:

1) $-36 \div -6 = 6$

2) $-5 \times 8 = -40$

3) $77 \div -11 = -7$

Order of Operations

RULE:

P – Parenthesis
E – Exponents
M/D – Multiply/Divide from LtoR
A/S – Add/Subtract from LtoR

Examples:

4 x 3 + 2 + (−3)5

$12 + 2 + (-3)5$

$12 + 2 + -15$

$14 + 15$

-1

−5(2) − 3 + 6(3)

$-10 - 3 + 18$
$-10 - 2$
-11

$-10 - 3 + 18$
$-13 + 18$
$\boxed{5}$

4(3 +2) − 5(6−3)

$4(5) - 5(3)$

$20 - 15$

$\boxed{5}$

$4\{2[(-3-2)(-7+4) - 5]\} - 2^2$

$4\{2[(-5)(-3) -5]\} - 2^2$

$4\{2[15-5]\} - 2^2$

$4\{2\cdot 10\} - 2^2$

$4\cdot 20 - 2^2$

$(\quad)$

$[\quad]$

$\{ \quad \}$

$4\cdot 20 - 4$

$80 - 4$

$\boxed{76}$