

Steps of adding and subtracting signed numbers

1- Get rid the parentheses using table of signs

Same family : (+ + / - -) :

2- If the signs are :

1- Add them 2- write their sign

Different families : (+ - / - +) :

1- Subtract them

2- write the sign of the greater number

*In general we have two Rules:

Rule

Example

1) $+(+)$ Two like signs become
 $-(-)$ a **positive sign**



$$3+(+2) = 3 + 2 = 5$$

$$6-(-3) = 6 + 3 = 9$$

2) $+(-)$ Two unlike signs become
 $-(+)$ a **negative sign**



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

$$8-(+2) = 8 - 2 = 6$$

❖ Question : Perform the following operations

a) $(+ 9) - (- 4) =$

= _____

= _____

e) $(15) + (-2) =$

= _____

= _____

b) $(- 6) - (+ 2) =$

= _____

= _____

f) $(- 30) + (+ 70) =$

= _____

= _____