Integer

Addition

$(+) + (+) =$ } same sign do addition, give sign of bigger no.
$(-) + (-) =$ }

$(+) + (-) =$ } opposite sign do subtraction, give sign of bigger no.
$(-) + (+) =$ }

Subtraction

$(+) - (+) =$ always +

$(-) - (-) =$ always −

$(+) - (-) =$ } + | (−)
$(-) - (+) =$ }

Multiplication / Division

"Same Rule"

Multiplication

$(+) \times (+) =$ } same sign ans. positive
$(-) \times (-) =$ }

$(+) \times (-) =$ } opposite sign ans. negative
$(-) \times (+) =$ }

Division

$(+) \div (+) =$ } same sign ans. positive
$(-) \div (-) =$ }

$(+) \div (-) =$ } opposite sign ans. negative
$(-) \div (+) =$ }

Extra: $-(-2) = 2\ (+2)$
$4 - (-2) = 6$

$-2 - 8 = (-2) + (-8) = -10$
$-2 - 3 = -5$