

$$\frac{\text{numerator}}{\text{denominator}} = \text{numerator} \div \text{denominator}$$

Parenthesis

$$\ominus \ominus = +$$

* DO NOT CHECK FOR
SIGNS UNTIL WE
HAVE NOTHING BUT
MULTIPLICATION
OR
DIVISION

$$\begin{aligned} \text{a) } \frac{-6 - (-12)}{-3} &= (-6 - (-12)) \div (-3) \\ &= (-6 + 12) \div (-3) \\ &= 6 \div (-3) \\ &= -2 \end{aligned}$$

$$\text{b.) } -3[2 - (1 - 8)]$$

parenthesis inside parenthesis

$$-3[2 - (-7)]$$

$$-3[2 + 7]$$

$$-3[9] = -27$$

$$c.) -5^2 - (-2)^3$$

$$-(25) - (-8)$$

$$-25 + 8 = \boxed{-17}$$

different sign
→ subtract

→ take sign of larger
absolute value

$$-5^2 = 25 ?$$

$$-1 \cdot 5^2 = -1 \cdot 25$$

$$= \boxed{-25}$$

$$(-2)^3 = (-2)(-2)(-2)$$

$$= -8$$

$$(-1 \cdot 2)^3 = (-1)(2)(-1)(2)(-1)(2)$$

$$= (-1)(-1)(-1)(2)(2)(2)$$

$$= -1 \cdot 8$$

$$= \boxed{-8}$$

$$d.) \frac{25 - 2(-5)}{-2 - 5} = \overset{\text{numerator}}{(25 - 2(-5))} \overset{\text{denominator}}{\div (-2 - 5)}$$

$$= (25 - (-10)) \div (-2 - 5)$$

$$= (25 + 10) \div (-2 - 5)$$

$$= (35) \div (-7)$$

$$= \boxed{-5}$$