

2.0 Substitution

Ex. Given $x = 2$, $y = 3$, & $z = -2$ evaluate each of the following:

a) $3x + 2y$ * bracket substitutions!

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

$$= 6 + 6$$

$$= 12$$

b) $5y - z^3$ ← not $(-2)^3$

$$= 5(3) - (-2)^3$$

$$= 15 + (+8)$$

$$= 23$$

c) $\frac{2z^2}{x-y}$

$$= \frac{2(-2)^2}{(2) - (3)}$$

$$= \frac{2(4)}{-1}$$

$$= -8$$