Algebra 1 Quiz 1 1 March 2024

SOUTH PARK ELEMENTARY

Full Name	Kenny McCormick
Section	2

Q1: Solve for x : $2x + 5 = 15$

$2x = 10$

$x = 10/2$

$= 5$

Q2: Find the roots of the quadratic equation: $x^2 - 5x + 6 = 0$

$= x^2 - 2x - 3x + 6$

$= x(x-2) - 3(x-2)$

$= (x-3)(x-2)$

$\therefore$ roots of the equation are 3 & 2

Q3: If $f(x) = 3x^2 - 2x + 1$, find $f(2)$.

$= 3(2^2) - 2(2) + 1$

$= 12 - 4 + 1$

$= 9$

Q4: Simplify the expression $\dfrac{2x^2 - 8}{x - 2}$

$= \dfrac{2x^2 - 8}{2x - 8} = \dfrac{(2x - 8)(2x + 8)}{2x - 8}$

$= 2x + 8$