

SOUTH PARK ELEMENTARY

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| Full Name | INSTRUCTOR |
| Section | |

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

$$2x = 10$$

$$x = \frac{10}{2}$$

$$= 5$$

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 and 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 $\frac{2x^2 - 8}{x - 2}$

$$= \frac{2(x^2 - 4)}{x - 2}$$

$$= \frac{2(\cancel{x-2})(x+2)}{\cancel{x-2}} = 2x + 4$$