

Grade 10 Mid - Year Topics

1) Properties of Functions

- Domain, range, increasing, decreasing, positive, negative, max, min, relative max, relative min, initial value, zero(s).

2) Functions

- Periodic functions
- Quadratic function rule $y = ax^2$
- Step Function (interpret graph and situation)
- Exponential function $y = a(c)^x$
- Piecewise functions
- Rational function $y = \frac{a}{x}$
- Linear equation $y = ax + b$

3) System of equations

- Comparison method
- Substitution method
- Elimination method
- # of solutions

4) Coordinate points on a line segment

- Distance from a point to a point.
- Midpoint of a line
- Division point of a line

5) Parallel and perpendicular lines

- Determine equation and interpret slopes of a line parallel / perpendicular