Pre-calculus 11

**Midterm Formula Sheet**

$$t\_{n}=t\_{1}+d(n-1)$$

$$t\_{n}=t\_{1}r^{n-1}$$

$$S\_{n}=\frac{n(t\_{1}+t\_{n})}{2}$$

$$S\_{n}=\frac{t\_{1}(1-r^{n})}{1-r}$$

$$S\_{\infty }=\frac{t\_{1}}{1-r}$$

$$x=\frac{-b\pm \sqrt{b^{2}-4ac}}{2a}$$

$$y=a\left(x-p\right)^{2}+q$$

$$y=ax^{2}+bx+c$$

$$y=a(x-r\_{1})(x-r\_{2})$$

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