1 | polynomials

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

2 | volume

2.1 | **sphere:** $A = \frac{4}{3}\pi r^3$

2.2 | **cylinder:** $A = \pi r^2 h$

2.3 | **cone:** $A = \frac{1}{3}\pi r^2 h$

3 | trig

3.1 | $\sin(a + b) = \sin a \cos b + \cos a \sin b$

3.2 | $\cos(a + b) = \cos a \cos b - \sin a \sin b$

4 | cubes

4.1 | $a^3 + b^3 = (a + b)(a^2 + b^2 - ab)$

4.1.1 | $a^3 - b^3 = (a - b)(a^2 + b^2 + ab)$

4.2 | $(a + b)^3 = a^3 + b^3 + a^2 b + b^2 a$

5 | taylor series

5.1 | $f(x)$ **near** $a = f(a) + \frac{f'(a)}{2}x^2 + \frac{f''(a)}{3!}x^3$

6 | polar

6.1 | $e^{i\theta} = \cos\theta + i\sin\theta$