# College Algebra Important Formulas & Facts

## Linear Functions & Relations Slope-intercept form y = f(x) = mx + b

Standard form Ax + By = C

Point-slope form 

Slope formula: 

Standard Equation of a Circle (x – h)2 + (y – k)2 = r2  Center (h, k); radius r

Distance Formula from P1 (x1, y1) to P2 (x2, y2)



Quadratic Functions Standard form 

Vertex form 

The Quadratic Formula The solutions of ax2 + bx + c = 0 , a ≠ 0 are given by



Compound Interest Formulas: Continuous Compounding



A = accumulated amount, P = Principle, r = annual interest rate, t = number of years,

n = frequency of compounding per year.

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| **Laws of Exponents** |
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| **Properties for Logarithms** | |
| 1. | 4. |
| 2. | 5. |
| 3. | 6. |

**Do your best! Rise to the challenge! Live and learn!**