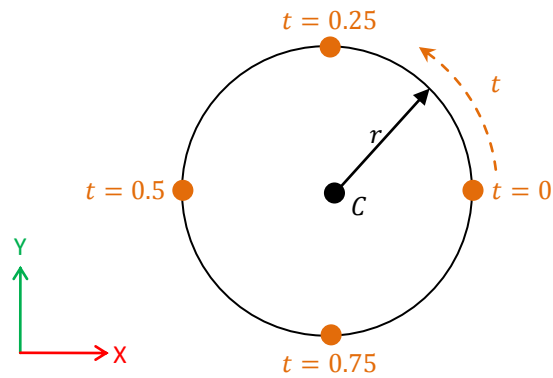


## Parametric Circle

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The parametric circle equations describe a 2D circle in terms of an independent parameter ( $t$ ).



$$x = x_c + r \cdot \cos(2\pi t)$$
$$y = y_c + r \cdot \sin(2\pi t)$$

$2\pi$  is included in the cosine and sine operations so that a  $t$  range from 0 to 1 will create a complete circle. The independent variable  $t$  can range from  $-\infty < t < \infty$ .

An example set of points is shown for these equations below. The points are evenly sampled in the parameter domain which gives them a uniform angular separation in the circle.

