E - Trigonometry

Expressing as $rsin(\theta \pm \alpha)$ or $rcos(\theta \pm \alpha)$	$a\cos\theta\pm b\sin\theta$ can be written as $r\sin(\theta\pm\alpha)$ or $r\cos(\theta\pm\alpha)$, where r is positive and angle α is acute. The algebra is easier with matching signs.
Arc length and area of segment	$s = \frac{\theta}{2\pi} \times 2\pi r \Rightarrow s = r\theta$ $A = \frac{\theta}{2\pi} \times \pi r^2 \Rightarrow A = \frac{1}{2}r^2\theta$ where θ is in radians.