



$y = 2 \cos[3(x - 30^\circ)] + 2$			
Amplitude 2	Period 120	Domain = $\{x \in \mathbb{R}, 30^\circ \leq x \leq 150^\circ\}$	Range = $\{y \in \mathbb{R}, 0 \leq y \leq 4\}$
List (in words) the complete transformations	a: stretched vertically by a factor of 2. K: compressed horizontally by a factor of $\frac{1}{3}$ . d: move right by $30^\circ$ . C: move up by 2.		

x	y	$\rightarrow$	$\frac{1}{3}x + 30^\circ$	$2y + 2$
0	1	$\rightarrow$	$30^\circ$	4
90	0	$\rightarrow$	$60^\circ$	2
180	-1	$\rightarrow$	$90^\circ$	0
270	0	$\rightarrow$	$120^\circ$	2
360	1	$\rightarrow$	$150^\circ$	4

