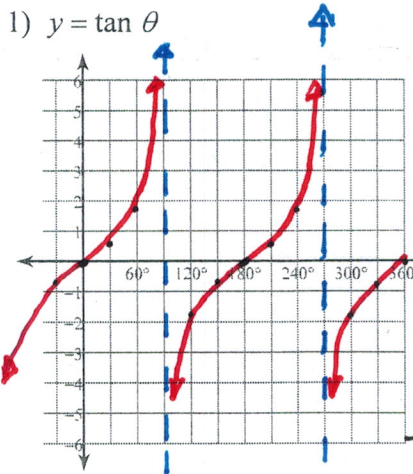


Graph each function using degrees or radians.

1) $y = \tan \theta$

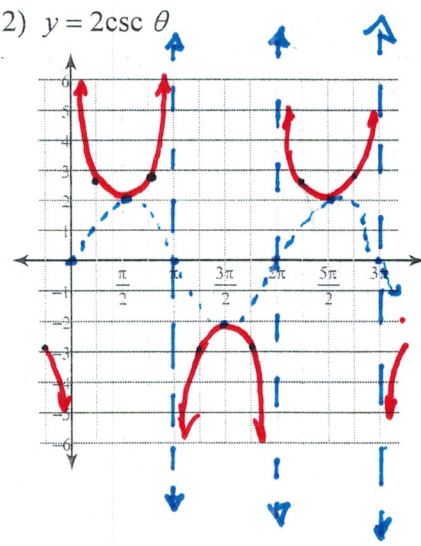


θ	$\tan \theta$
-30°	-0.6
0°	0
30°	0.6
60°	1.7
90°	∞
120°	-1.7
150°	-0.6
180°	0
210°	0.6
240°	1.7
270°	∞
300°	-1.7
330°	-0.6
360°	0

asymptotes @ $\theta = 90^\circ, 270^\circ, 450^\circ$ etc

Period = π
-OR-
 180°

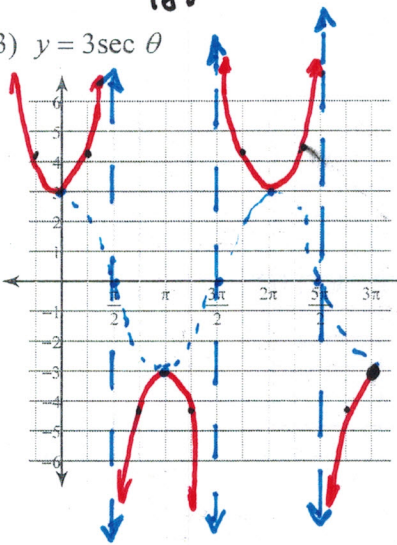
2) $y = 2\csc \theta$



$y = 2\sin \theta$

θ	$2\csc \theta = \frac{2}{\sin \theta}$
-45°	-2.8
0°	∞
45°	2.8
90°	2
135°	2.8
180°	∞
225°	-2.8
270°	-2
315°	-2.8
360°	∞
405°	2.8
450°	2
495°	2.8
540°	∞

3) $y = 3\sec \theta$

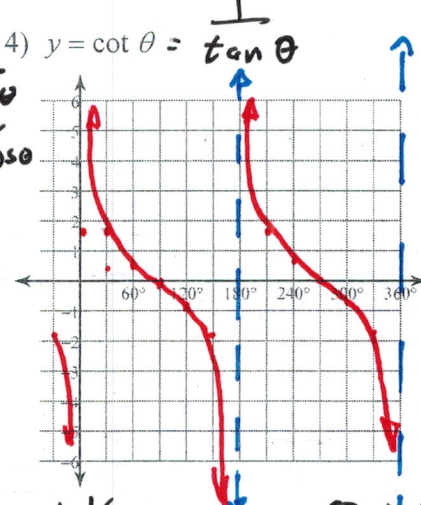


$y = 3\cos \theta$

$y = 3\sec \theta = \frac{3}{\cos \theta}$

θ	$3\sec \theta = \frac{3}{\cos \theta}$
-45°	4.2
0°	3
45°	4.2
90°	∞
135°	-4.2
180°	-3
225°	-4.2
270°	∞
315°	4.2
360°	3
405°	4.2
450°	∞
495°	-4.2
540°	-3

4) $y = \cot \theta = \frac{1}{\tan \theta}$



θ	$\frac{1}{\tan \theta}$
-30°	-1.7
0°	∞
30°	1.7
60°	0.6
90°	0
120°	-0.6
150°	-1.7

θ	$\frac{1}{\tan \theta}$
180°	∞
210°	1.7
240°	0.6
270°	0
300°	-0.6
330°	-1.7
360°	∞