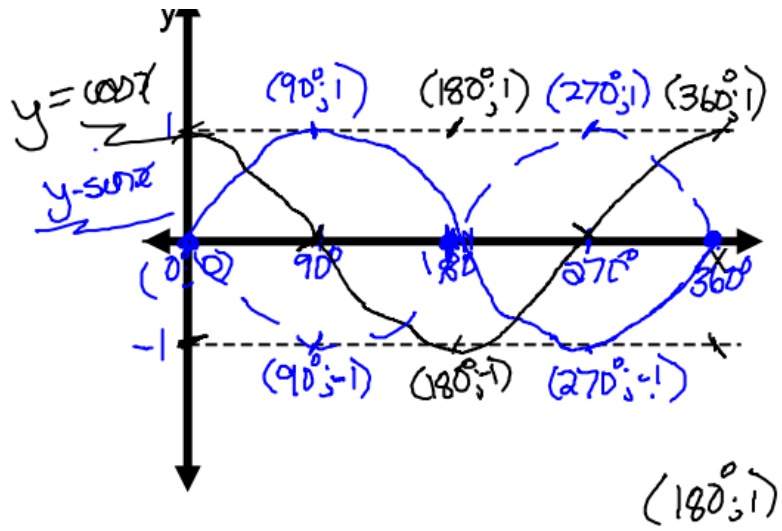
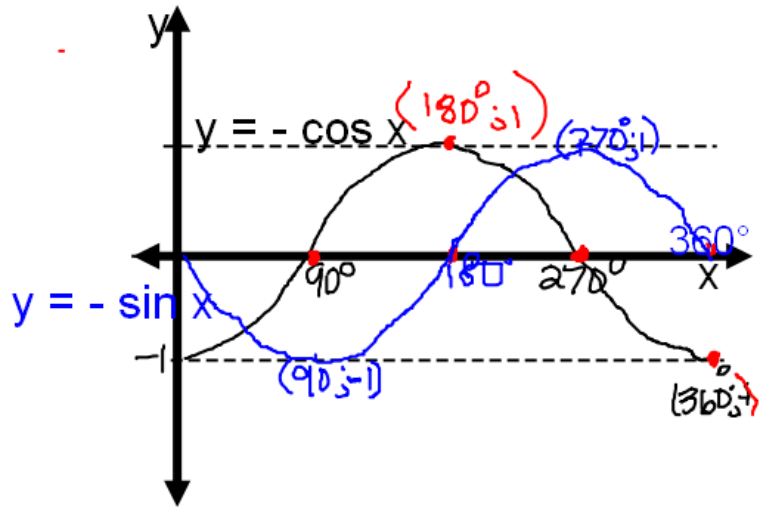


3.

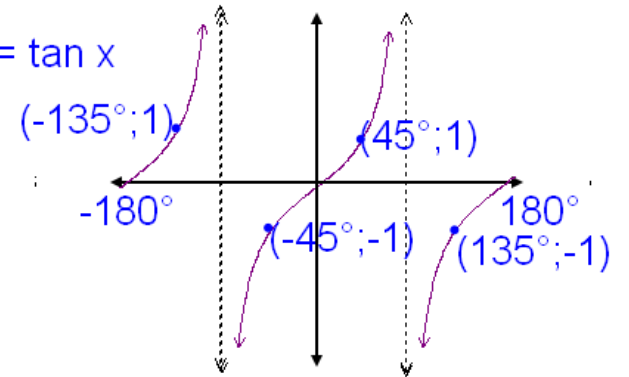


$(180^\circ; 1)$

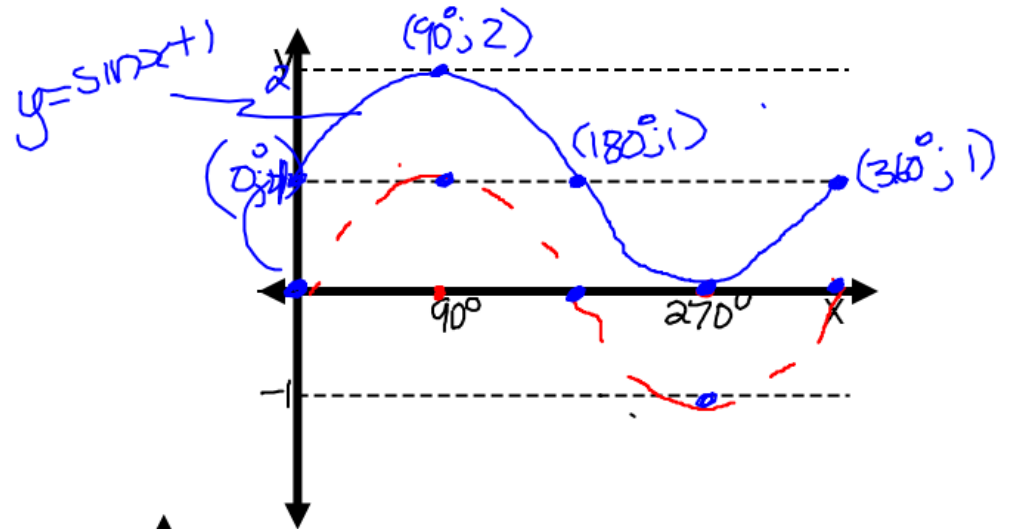
4  
&  
5



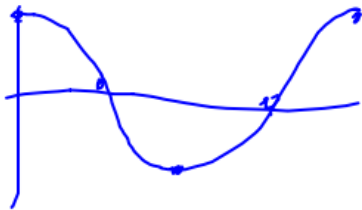
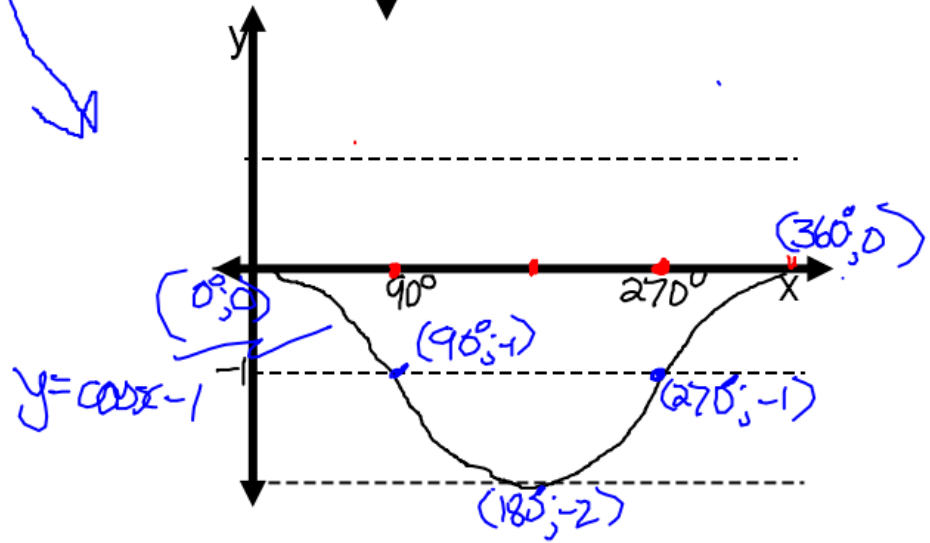
6.  $y = \tan x$



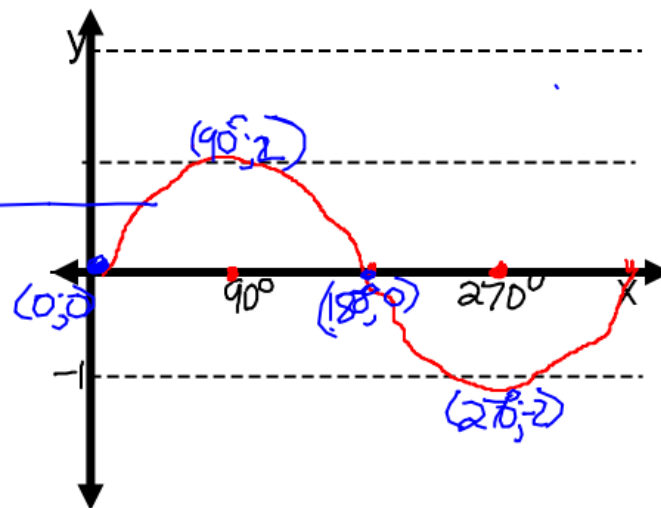
7.  $y = \sin x + 1$   $0^\circ \leq x \leq 360^\circ$



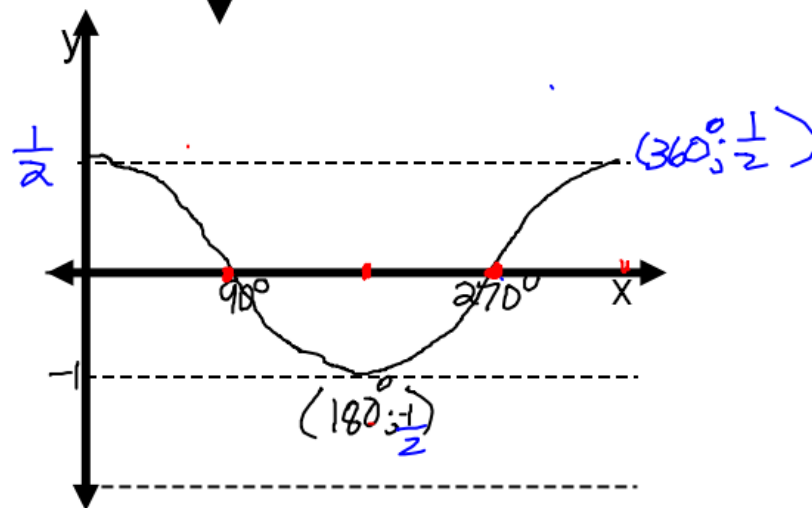
8.  $y = \cos x - 1$   $0^\circ \leq x \leq 360^\circ$



9.  $y = 2\sin x$



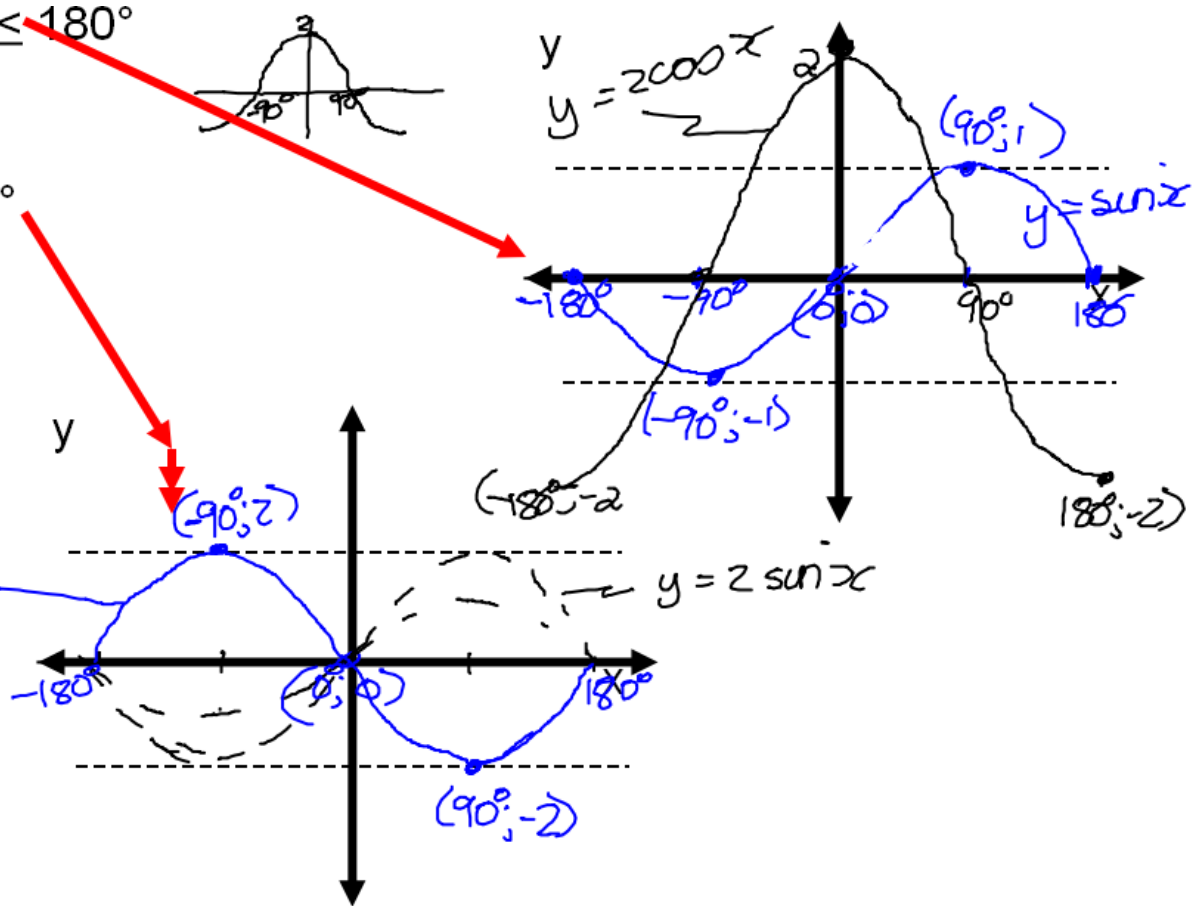
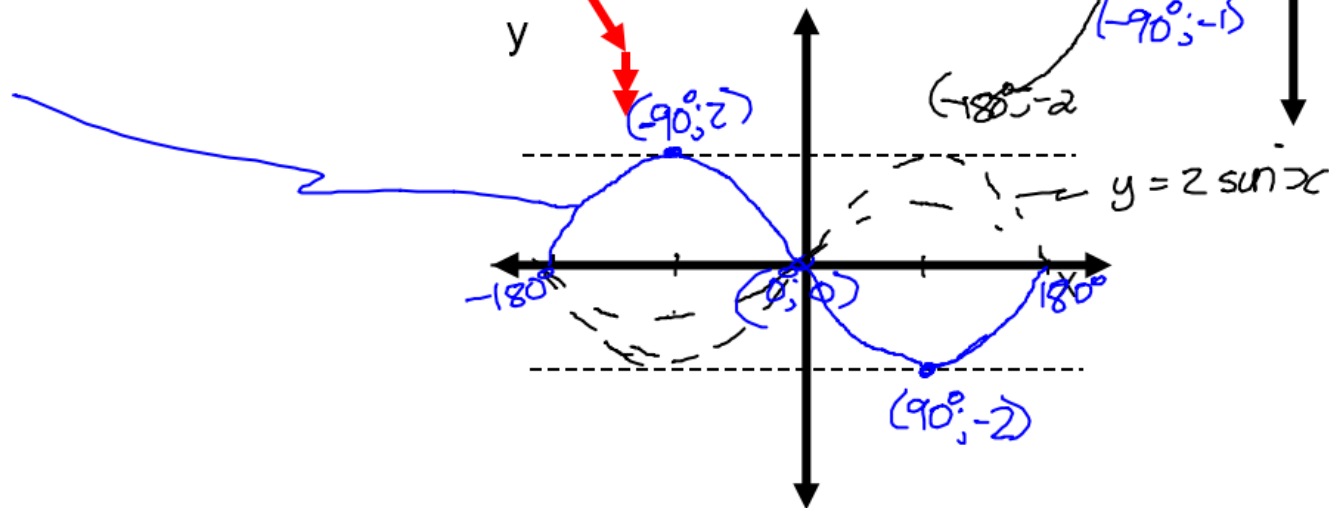
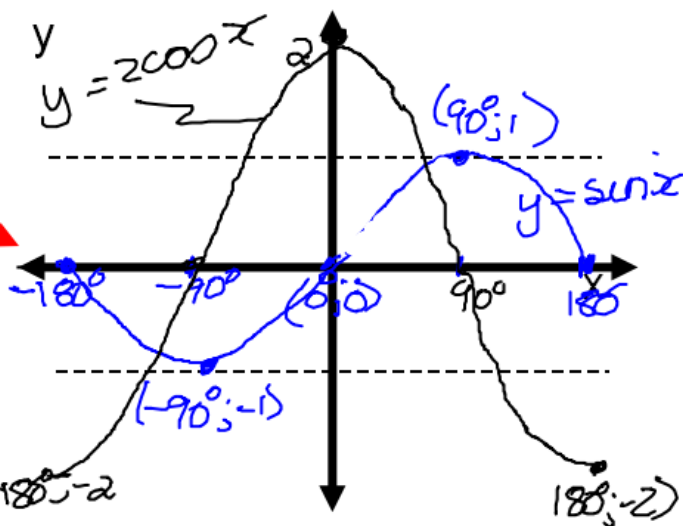
10.  $y = \frac{1}{2}\cos x$



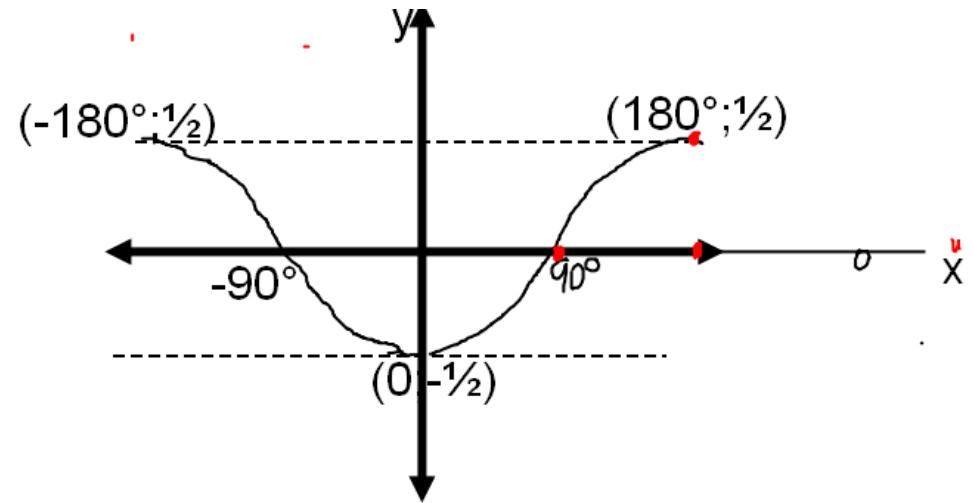
11 a)  $y = \sin x$  and  $y = 2 \cdot \cos x - 180^\circ \leq x \leq 180^\circ$



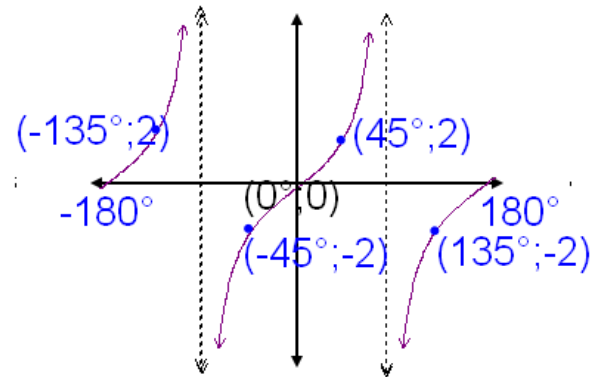
12.  $y = -2 \cdot \sin x$   $-180^\circ \leq x \leq 180^\circ$



13.  $y = -\frac{1}{2}\cos x$        $-180^\circ \leq x \leq 180^\circ$

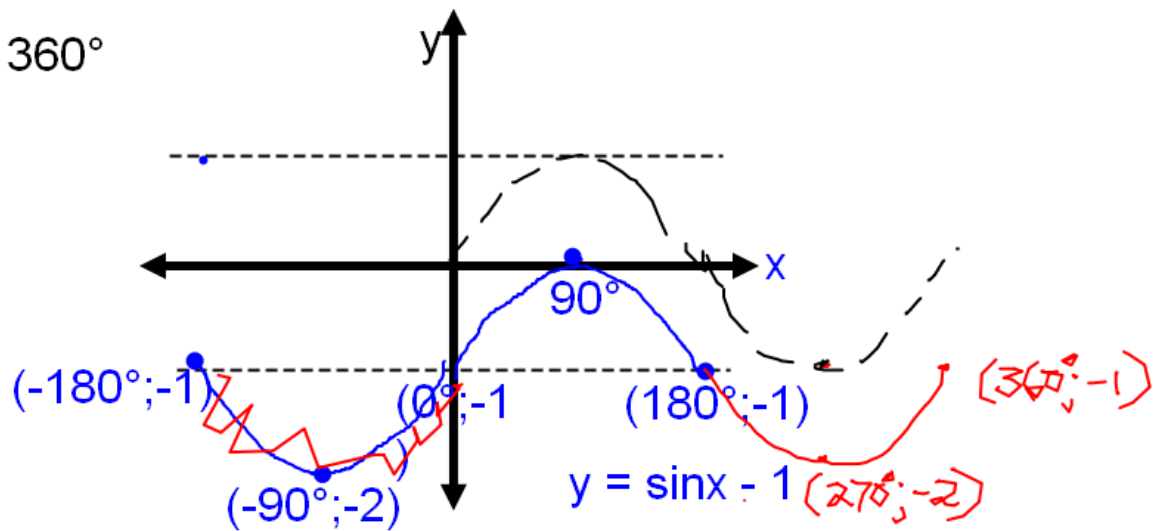


14.  $y = 2\tan x$        $-180^\circ \leq x \leq 180^\circ$



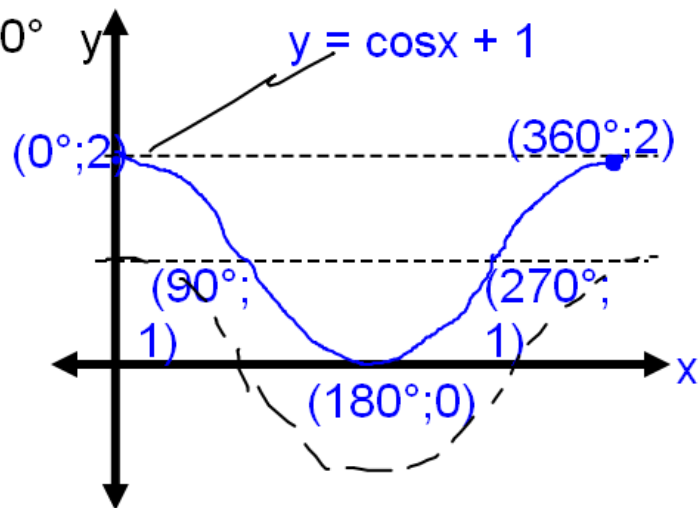
15.  $y = \sin x - 1$

$0^\circ \leq x \leq 360^\circ$



16.  $y = \cos x + 1$

$0^\circ \leq x \leq 360^\circ$



90°

17. For q 3 – 5 & 7-10 Give the a) domain b) range c) period d) amplitude e) maximum value

3 a)  $y = \sin x$  and  $y = \cos x$   $-180^\circ \leq x \leq 180^\circ$

a)  $D = x: -180^\circ \leq x \leq 180^\circ$  b)  $R = y: -1 \leq y \leq 1$

c) period =  $360^\circ$  d) amplitude = 1 e) max val = 1  
max val = 1

5.  $y = -\cos x$   $-180^\circ \leq x \leq 180^\circ$

a)  $D = x: -180^\circ \leq x \leq 180^\circ$  b)  $R = y: -1 \leq y \leq 1$

c) period =  $360^\circ$  d) amplitude = 1 e) max val = 1  
max val = 2

8.  $y = \cos x - 1$   $0^\circ \leq x \leq 360^\circ$

a)  $D = x: 0^\circ \leq x \leq 360^\circ$  b)  $R = y: -2 \leq y \leq 0$

c) period =  $360^\circ$  d) amplitude = 1 e) max val = 0  
max val = 2

10.  $y = \frac{1}{2} \cos x$   $0^\circ \leq x \leq 360^\circ$

4.  $y = -\sin x$   $-180^\circ \leq x \leq 180^\circ$

a)  $D = x: -180^\circ \leq x \leq 180^\circ$  b)  $R = y: -1 \leq y \leq 1$

c) period =  $360^\circ$  d) amplitude = 1 e)

7.  $y = \sin x + 1$   $0^\circ \leq x \leq 360^\circ$

a)  $D = x: 0^\circ \leq x \leq 360^\circ$  b)  $R = y: 0 \leq y \leq 2$

c) period =  $360^\circ$  d) amplitude = 1 e)

9.  $y = 2 \cdot \sin x$   $0^\circ \leq x \leq 360^\circ$

a)  $D = x: 0^\circ \leq x \leq 360^\circ$  b)  $R = y: -2 \leq y \leq 2$

c) period =  $360^\circ$  d) amplitude = 2 e)