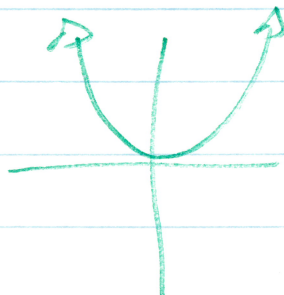
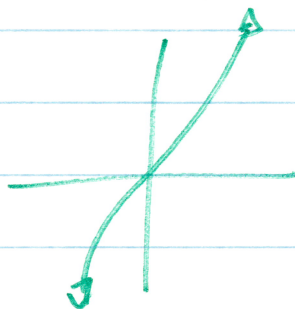


1.60

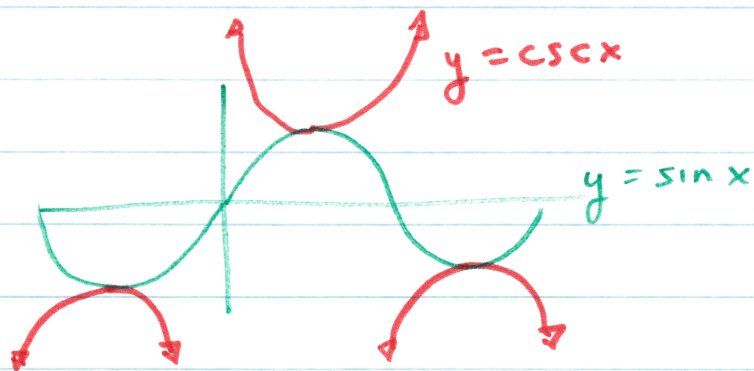
EVEN FUNCTIONS



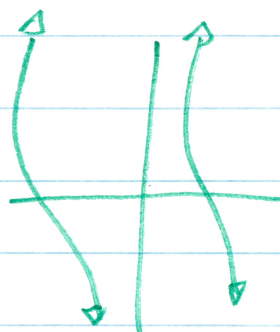
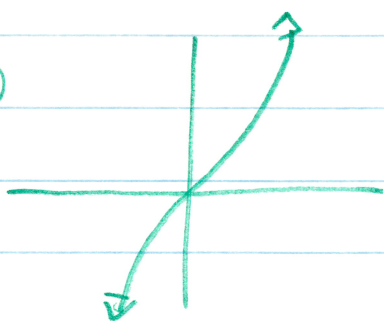
ODD FUNCTIONS



7



6



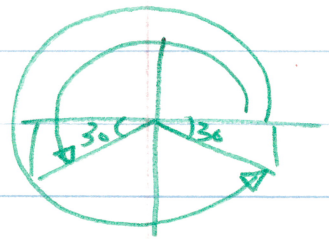
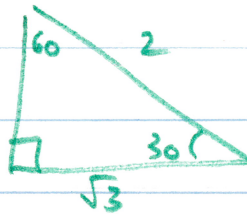
1.6

(35)

$$\sin x = -.5$$

$$\sin^{-1}(\sin x) = \sin^{-1}(-.5)$$

$$x = \sin^{-1}(-.5) \begin{matrix} \text{opp} \\ \text{hyp} \end{matrix}$$



$$210^\circ \cdot \frac{\pi}{180} = \frac{7\pi}{6}$$

$$330^\circ \cdot \frac{\pi}{180} = \frac{11\pi}{6}$$

$$\frac{7\pi}{6} + 2\pi k$$

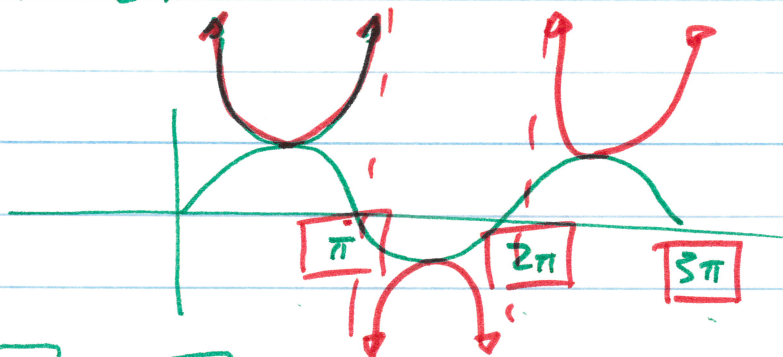
$$\frac{11\pi}{6} + 2\pi k$$

1.6

① $y = 3 \csc(3x + \pi) - 2$
 $y = 3 \csc 3(x + \frac{\pi}{3}) - 2$

period = $\frac{\text{old period}}{B}$

(a) $\frac{2\pi}{3}$



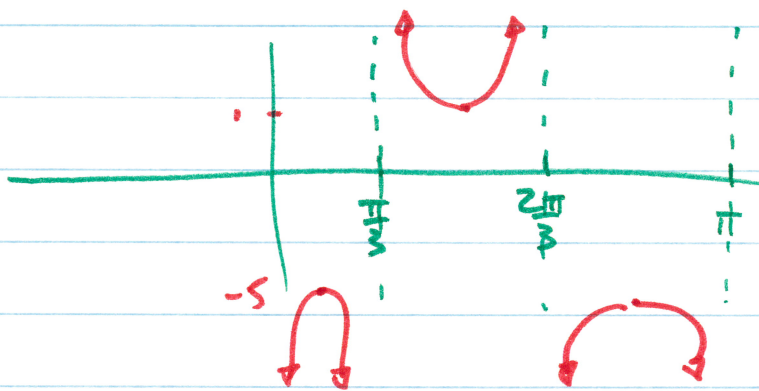
(b) $\frac{\pi}{3}, \frac{2\pi}{3}, \pi$

\downarrow
 $0, \frac{\pi}{3}, \frac{2\pi}{3}$

$B = 3$

ALL REALS EXCEPT
 $0 \pm \frac{\pi}{3}k$

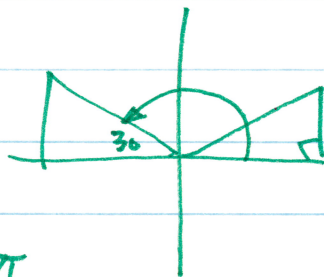
(d)



③③

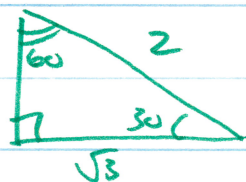
$\csc x = 2$
 $\sin x = \frac{1}{2}$ opp/hyp

$x = \frac{\pi}{6}$



150°
 $\frac{5\pi}{6}$

$\frac{5\pi}{6}$

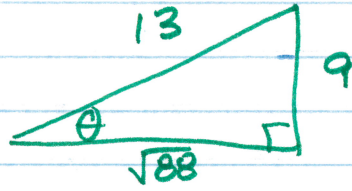


30°
 $\frac{\pi}{6}$

1.6 \sim

(42) $\tan(\sin^{-1} \frac{9}{13})$ $\begin{matrix} \text{opp} \\ \text{hyp} \end{matrix}$

$\frac{9}{\sqrt{88}}$

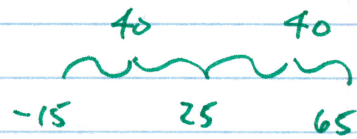


$$13^2 = 9^2 + x^2$$

$$169 = 81 + x^2$$

$$88 = x^2$$

$$\pm \sqrt{88} = x$$



$$y = -\cos x$$

$$y = -40 \cos x$$

$$y = -40 \cos x + 25$$

$$y = -40 \cos \frac{\pi}{6} x + 25$$

~~$$\frac{2\pi}{12} = \frac{\pi}{6}$$~~

$$\frac{2\pi}{B} = 12$$

$$\frac{2\pi}{12} = B$$