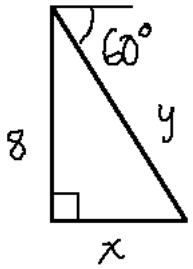
1. If $\tan\theta = \frac{3}{2}$ and $\sin\theta < 0$, find $\cos\theta$.
2. Simplify: $3\tan(\frac{3\pi}{4}) - 2\cot(-\frac{\pi}{4})$.
3. What is the domain and the range of the secant function?
4. Is the function $f(x) = x + \sin x$ odd, even or neither?
5. The radius of each wheel of a car is 15 inches. If the wheels are turning at the rate of 3 revolutions per second, how fast is the car moving? Leave your answer in terms of π.
6. Find x and y.



7. Find the exact value of
   (a) $\cot(\frac{7\pi}{6})$
   (b) $\sin(-330^\circ)$
   (c) $\sec 135^\circ$
8. Sketch $f(x) = \tan(\frac{1}{2}x)$.
9. Sketch $f(x) = -2\cos(3x - \pi)$.
10. Sketch $f(x) = \cot(4x + \pi)$.