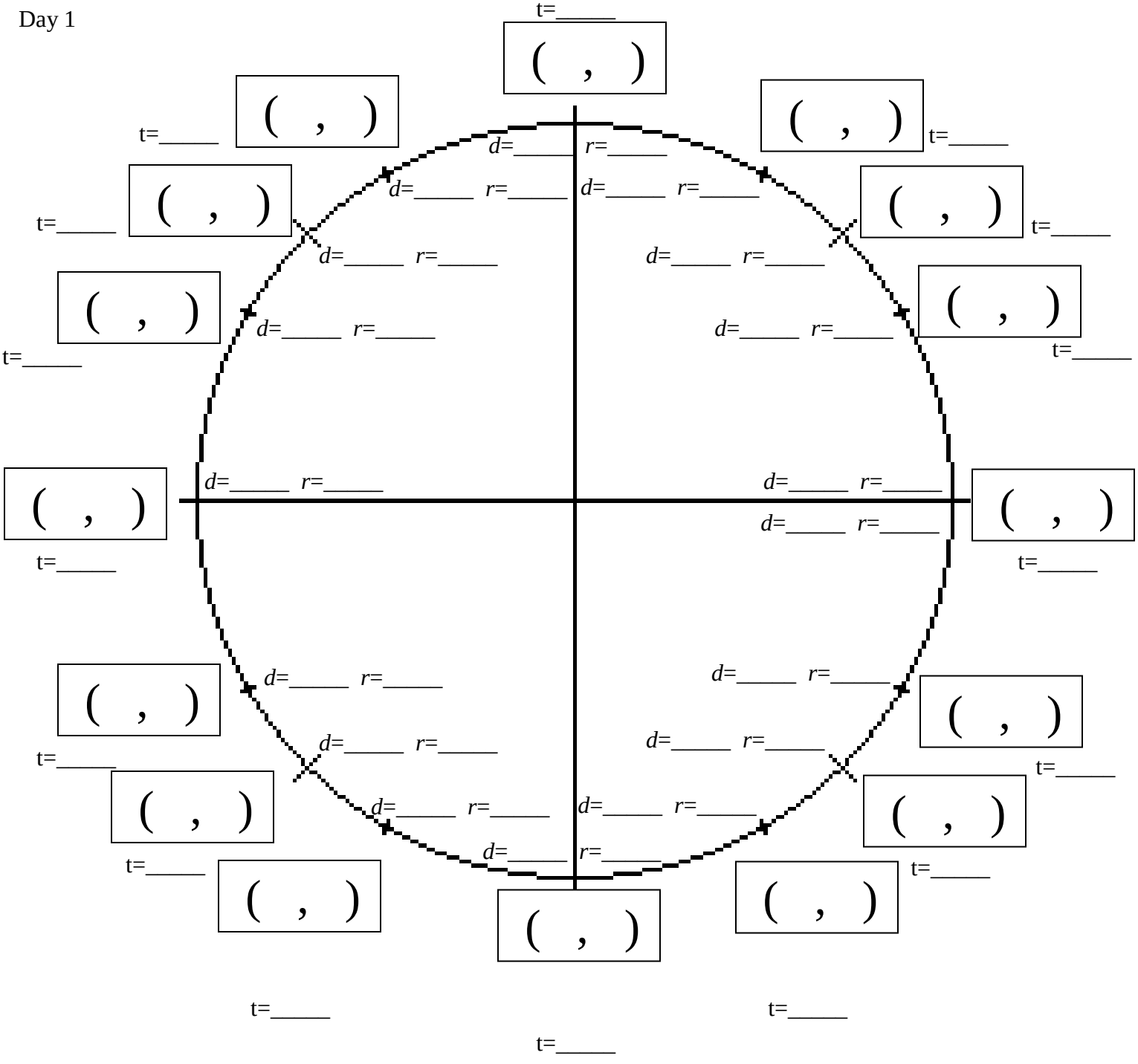
Name_____

Worksheet: Unit Circle/Piece-Wise Functions
Day 1

Unit Circle



Reciprocal Identities		
_____	_____	_____
_____	_____	_____

Tangent & Cotangent Identities	
_____	_____

Pythagorean Identities

_____

_____

_____

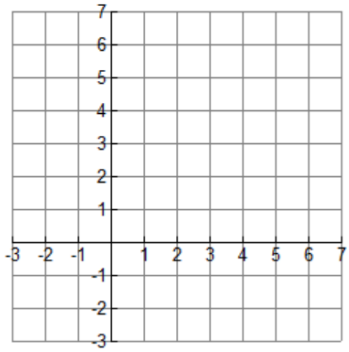
Double-Angle Formula

_____

Piecewise Function
Day 1

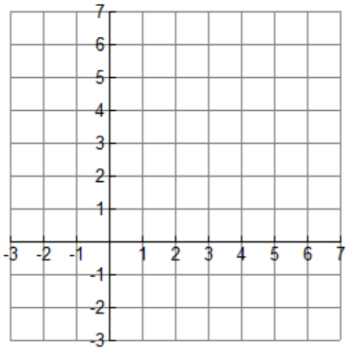
Name_____
Date_____Pd____

1. $f(x)=\begin{cases}\frac{1}{2}x & x<4\\ x-3 & x\geq 4\end{cases}$



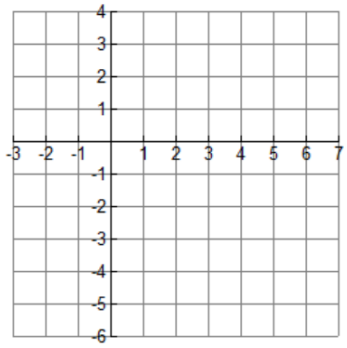
What is the domain of f(x)?

2. $f(x)=\begin{cases}\frac{1}{2}x & x<4\\ x-2 & x\geq 4\end{cases}$



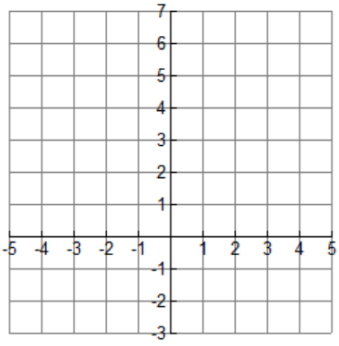
What is the domain of f(x)?

3. $f(x)=\begin{cases}\frac{1}{3}x & x<3\\ 1-x & x>3\end{cases}$



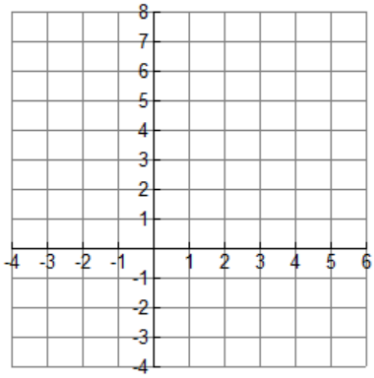
What is the domain of f(x)?
What would make the domain all Reals?

3. $f(x)=\begin{cases}-x & x<-1\\ -2 & -1\leq x<2\\ 2x & x\geq 2\end{cases}$

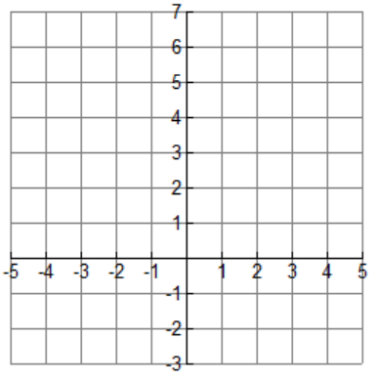


What is the domain of f(x)?

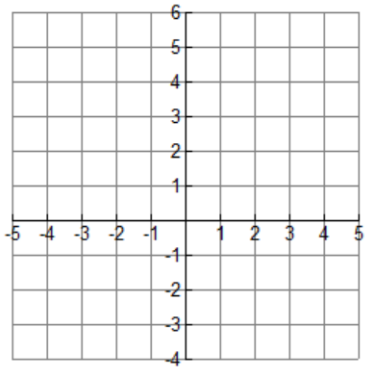
5. $f(x)=\begin{cases}3-x & x<-2\\ 2x & -2\leq x<3\\ 5 & x\geq 3\end{cases}$



6. $f(x)=\begin{cases}x^2 & x<-1\\ 4 & -1\leq x<1\\ x^2 & x\geq 1\end{cases}$



7. $f(x)=\begin{cases}-x^2 & x<-1\\ -x & -1\leq x\leq 1\\ x^2 & x>1\end{cases}$



8. $f(x)=\begin{cases}5 & x<-2\\ -x^2 & -2\leq x<2\\ x-2 & x\geq 2\end{cases}$