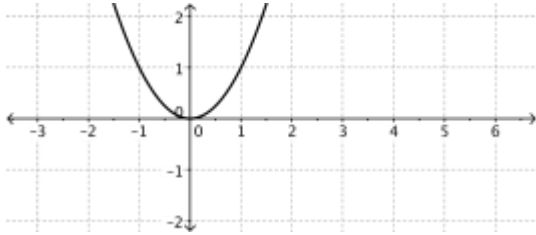


Inverse Trig Functions

0. $f(x) = \underline{\hspace{2cm}}$

Restrict domain to be 1-1: $\underline{\hspace{2cm}}$

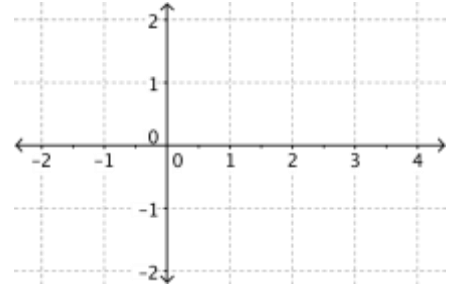
Range of restricted domain: $\underline{\hspace{2cm}}$



$f^{-1}(x) = \underline{\hspace{2cm}}$

Domain: $\underline{\hspace{2cm}}$

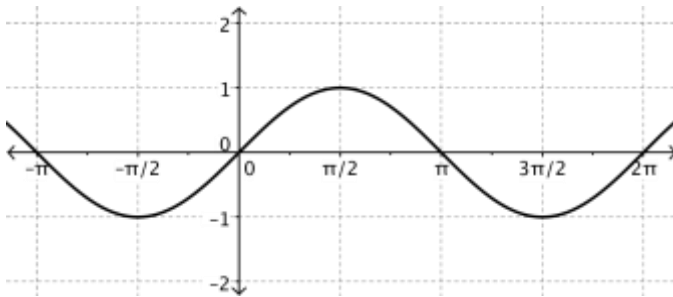
Range: $\underline{\hspace{2cm}}$



1. $f(x) = \underline{\hspace{2cm}}$

Restrict domain to be 1-1: $\underline{\hspace{2cm}}$

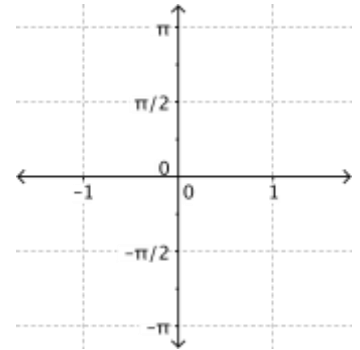
Range of restricted domain: $\underline{\hspace{2cm}}$



$f^{-1}(x) = \underline{\hspace{2cm}}$

Domain: $\underline{\hspace{2cm}}$

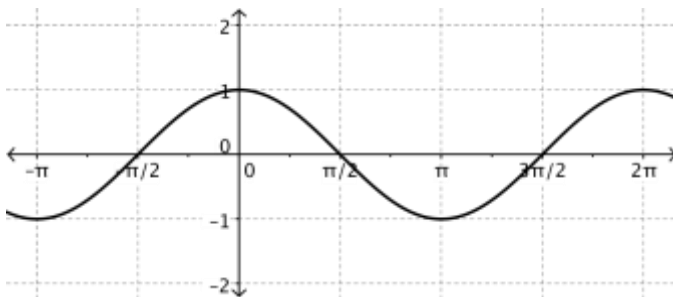
Range: $\underline{\hspace{2cm}}$



2. $f(x) = \underline{\hspace{2cm}}$

Restrict domain to be 1-1: $\underline{\hspace{2cm}}$

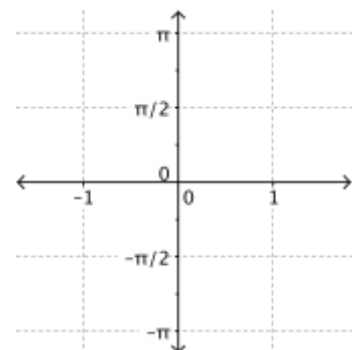
Range of restricted domain: $\underline{\hspace{2cm}}$



$f^{-1}(x) = \underline{\hspace{2cm}}$

Domain: $\underline{\hspace{2cm}}$

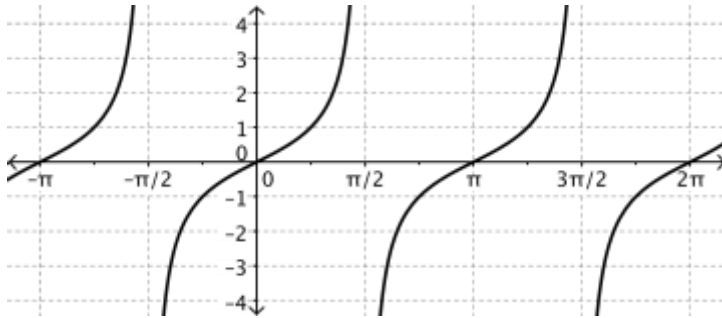
Range: $\underline{\hspace{2cm}}$



3. $f(x) = \underline{\hspace{2cm}}$

Restrict domain to be 1-1: $\underline{\hspace{2cm}}$

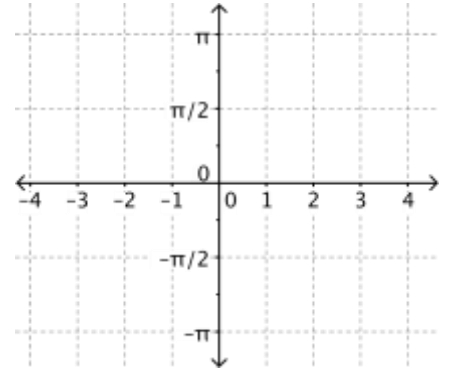
Range of restricted domain: $\underline{\hspace{2cm}}$



$f^{-1}(x) = \underline{\hspace{2cm}}$

Domain: $\underline{\hspace{2cm}}$

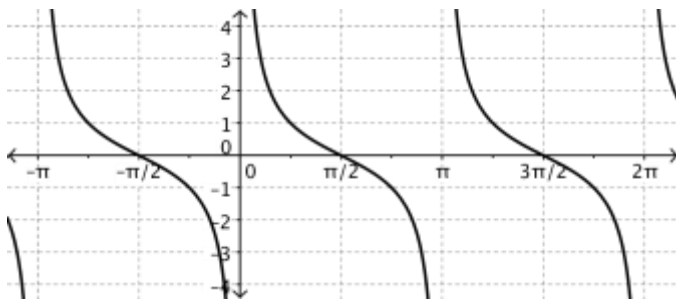
Range: $\underline{\hspace{2cm}}$



4. $f(x) = \underline{\hspace{2cm}}$

Restrict domain to be 1-1: $\underline{\hspace{2cm}}$

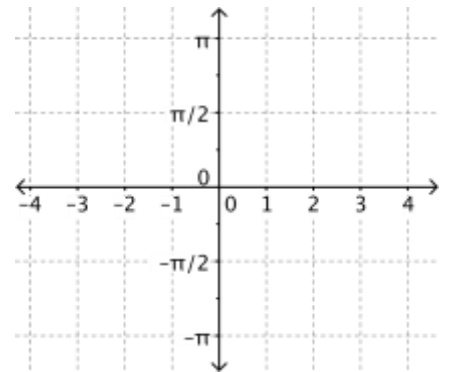
Range of restricted domain: $\underline{\hspace{2cm}}$



$f^{-1}(x) = \underline{\hspace{2cm}}$

Domain: $\underline{\hspace{2cm}}$

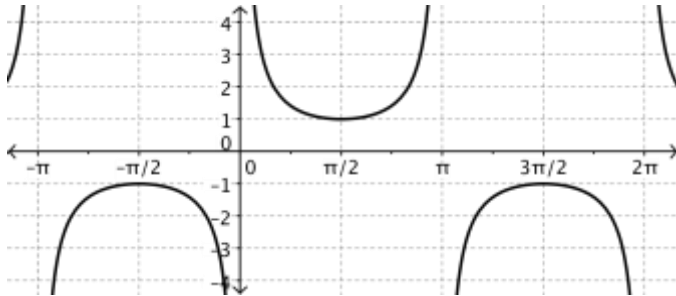
Range: $\underline{\hspace{2cm}}$



5. $f(x) = \frac{1}{\cos(x)}$

Restrict domain to be 1-1: $0 < x < \pi$

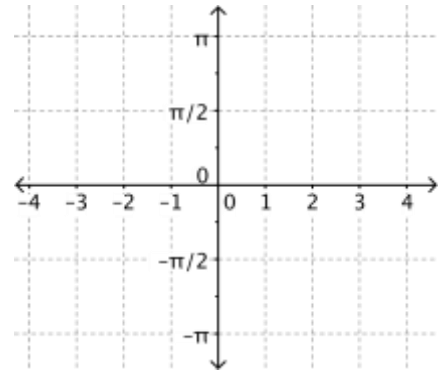
Range of restricted domain: $(-\infty, -1) \cup (1, \infty)$



$f^{-1}(x) = \arccos(x)$

Domain: $[-1, 1]$

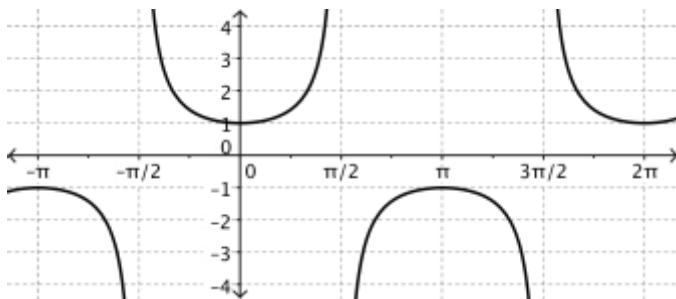
Range: $[0, \pi]$



6. $f(x) = \frac{1}{\sin(x)}$

Restrict domain to be 1-1: $0 < x < \pi$

Range of restricted domain: $(-\infty, -1) \cup (1, \infty)$



$f^{-1}(x) = \arcsin(x)$

Domain: $[-1, 1]$

Range: $[-\pi/2, \pi/2]$

