

Graphing Transformed Inverse Trig. Functions

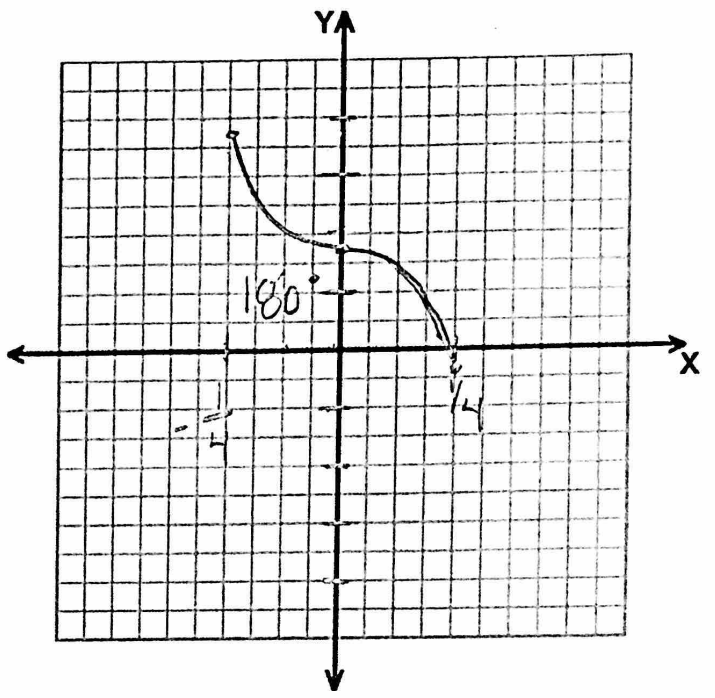
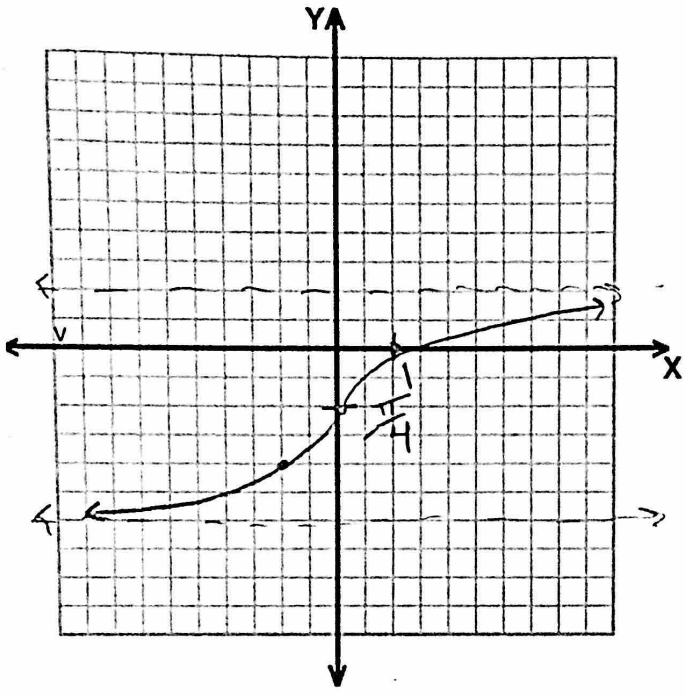
Name _____

Graph the following inverse trig. functions. State the domain, range, and where applicable the asymptotes.

1. $y = \tan^{-1} x - \frac{\pi}{4}$

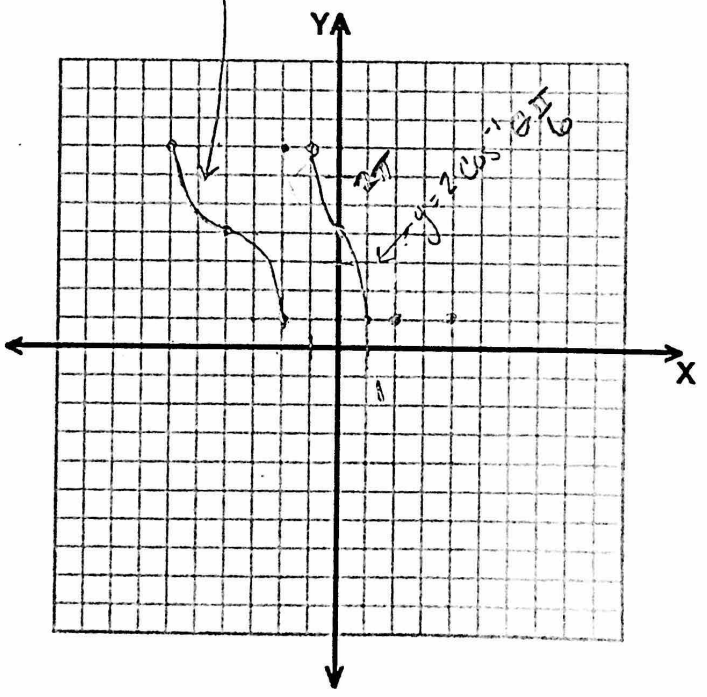
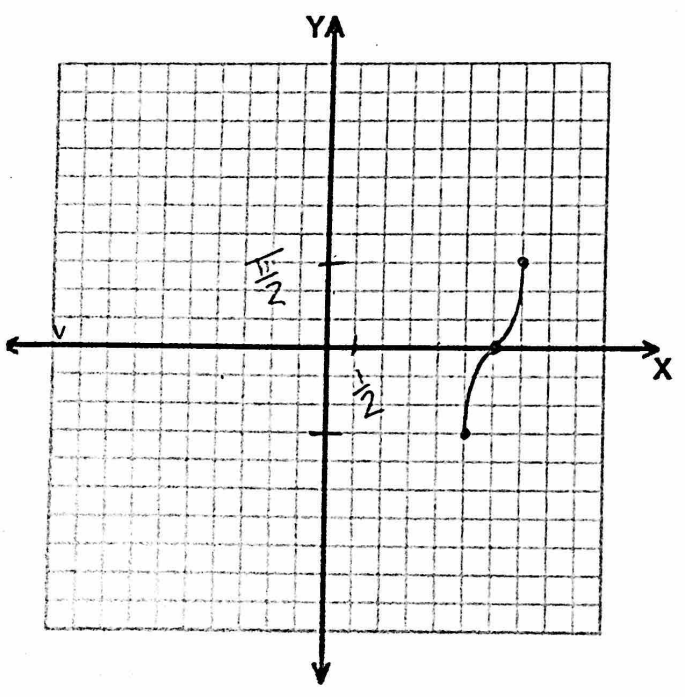
2. $g(x) = 4\cos^{-1} 4x - 45^\circ$

$\frac{1}{2}\pi - 45^\circ$



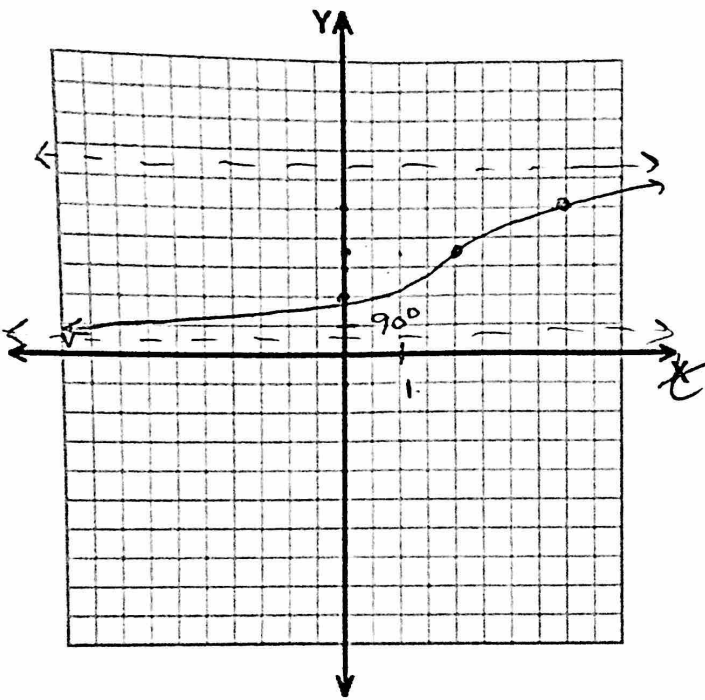
3. $y(t) = \sin^{-1} 2(t-3)$

4. $y = 2\arccos\left(\frac{x}{2} + 2\right) + \frac{\pi}{6}$

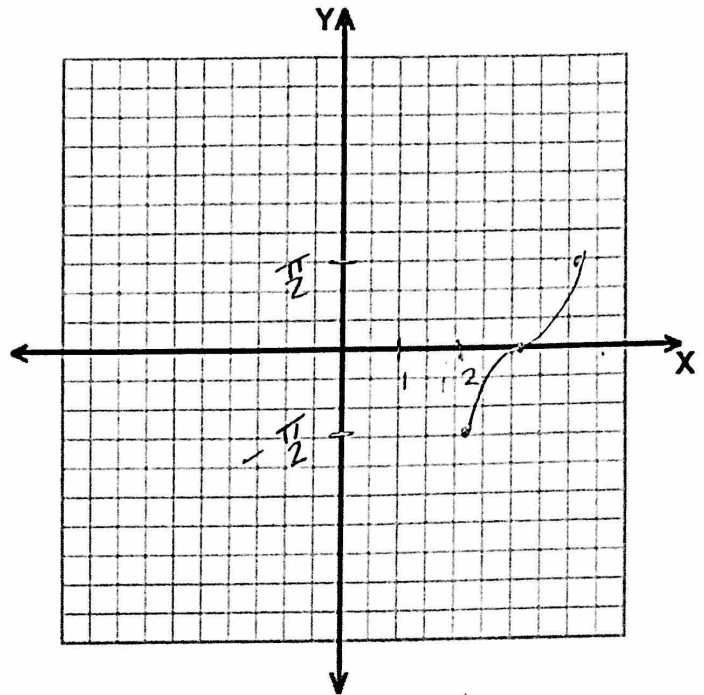


5. $f(t) = 315^\circ + 3 \arctan\left(\frac{t}{2} - 1\right)$

$\frac{1}{2}(t-2)$ $90^\circ \cdot 3$
 270°



6. $f(x) = \frac{1}{2} \arcsin(x - \pi)$



Write an equation for the following graphs.

