

Math 190 Domain and Trig Worksheet

Questions:

1. Find the domain of the following functions

(a) $x^2 - 7x - 18$

(b) $\sin x$

(c) $\tan x$

(d) $\sqrt{x^2 - x - 2}$

(e) $\frac{5x^2 - 3x + 2}{5x^2 - x - 18}$

(f) $\frac{5x^2 - x - 18}{5x^2 - 3x + 2}$

2. Find the zeros of each of the functions from question 1.

3. Plot the graphs of $\sin x$, $\cos x$ and $\tan x$.

4. Compute

(a) $\cos(3\pi/4)$

(b) $\sin(-\pi/4)$

(c) $\tan(11\pi/3)$

5. Find all x in $[0, 2\pi)$ satisfying the following

(a) $\sin x = \cos x$

(b) $\cos^2 x - \sin x - 1 = 0$