

## Math 151 Quiz #1 Answers

1. Domain:  $t \geq \frac{1}{5}$  (Solve  $5t - 1 \geq 0$ .)

2. (a)  $\cos(3\pi/4) = -\frac{\sqrt{2}}{2}$

(b)  $\arcsin(-1) = -\frac{\pi}{2}$

3.  $x = \ln(4) - 5$

4. (a)  $\lim_{x \rightarrow 3} f(x) = 1$

(b)  $\lim_{x \rightarrow 2} f(x) = \infty$

(c)  $\lim_{x \rightarrow 1^+} f(x) = 0$

(d)  $f(3) = 3$