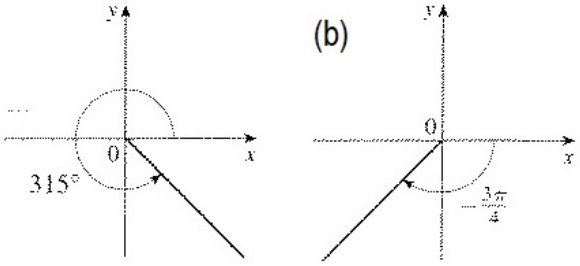
**Lista 2**

1. Converta $300°$ para radianos
2. Converta $-\frac{3\pi}{8}$ para graus
3. Desenhe, em posição padrão, o ângulo cuja medida é dada
   (a) $315°$
   (b) $-\frac{3\pi}{4}$
4. Determine as taxas trigonométricas exatas para ângulo cuja medida em radianos é dada.
   (a) $\frac{3\pi}{4}$
   (b) $\frac{4\pi}{3}$
5. Determine as taxas trigonométricas restantes.
   (a) $sen\,\Theta = \frac{3}{5}, 0 < \theta < \frac{\pi}{2}$
   (b) $cos\,x = -\frac{1}{3}, \pi < x < \frac{3\pi}{2}$
6. Calcule
   (a) $arc\,sen\,\frac{1}{2}$
   (b) $arc\,tg\,(-1)$
   (c) $cos(arc\,sen\,\frac{\sqrt{3}}{2})$
7. Calcule
   (a) $log_{10}100$
   (b) $log_{\frac{1}{2}}16$
   (c) $log_{\frac{1}{2}}\sqrt{2}$
   (d) $log_9\sqrt{3}$
   (e) $log_{10}1$
   (f) $log_5(-5)$
   (g) $log_{10}1,25 + log_{10}80$
   (h) $log_5 10 + log_5 20 - 3log_5 2$

**Respostas:**

1. $\frac{5\pi}{3}$
2. $-67,5°$
3. (a)




4. (a) $sen\,\frac{3\pi}{4} = \frac{\sqrt{2}}{2}; cos\,\frac{3\pi}{4} = -\frac{\sqrt{2}}{2}; tg\,\frac{3\pi}{4} = -1; cossec\,\frac{3\pi}{4} = \sqrt{2}; sec\,\frac{3\pi}{4} = -\sqrt{2}; cotg\,\frac{3\pi}{4} = -1$
   (b) $sen\,\frac{4\pi}{3} = -\frac{\sqrt{3}}{2}; cos\,\frac{4\pi}{3} = -\frac{1}{2}; tg\,\frac{4\pi}{3} = \sqrt{3}; cossec\,\frac{4\pi}{3} = -\frac{2\sqrt{3}}{3}; sec\,\frac{4\pi}{3} = -2; cotg\,\frac{4\pi}{3} = \frac{\sqrt{3}}{3}$
5. (a) $cos\,\Theta = \frac{4}{5}, tg\,\Theta = \frac{3}{4}, cossec\,\Theta = \frac{5}{3}, sec\,\Theta = \frac{5}{4}, cotg\,\Theta = \frac{4}{3}$
   (b) $sen\,x = -\frac{2\sqrt{2}}{3}, tg\,x = 2\sqrt{2}, cossec\,x = -\frac{3\sqrt{2}}{4}, sec\,x = -3, cotg\,x = \frac{\sqrt{2}}{4}$
6. (a) $\frac{\pi}{6}$
   (b) $-\frac{\pi}{4}$
   (c) $\frac{1}{2}$
7. (a) 2
   (b) $-4$
   (c) $-\frac{1}{2}$
   (d) $\frac{1}{4}$
   (e) 0
   (f) não existe
   (g) 2
   (h) 2