Lista 03 - Matemática Básica II - 2016.2

1. Esboce o gráfico de cada curva abaixo:

(a) $y = -\cos x$
(b) $y = 2\text{sen}x$
(c) $y = \cos(4x)$
(d) $y = -3\cos x$
(e) $y = 4\text{sen}x + 1$
(f) $y = \cos\left(x - \frac{\pi}{3}\right)$
(g) $y = 4\cos\left(x + \frac{\pi}{3}\right)$
(h) $y = \text{sen}(\pi x) - 3$
(i) $y = -\frac{1}{2}\text{sen}(3x)$
(j) $y = -2\text{sen}\left(x - \frac{\pi}{4}\right)$
(k) $y = \frac{1}{2}\text{sen}\left(x + \frac{\pi}{6}\right)$
(l) $y = -5\cos(3x) + 3$
(m) $y = \text{sen}\left(x - \frac{\pi}{3}\right) + 5$
(n) $y = -3\text{sen}\left(\frac{x}{2}\right)$
(o) $y = \cos\left(x - \frac{\pi}{6}\right) + 4$
(p) $y = \cos\frac{x}{4} - 3$
(q) $y = -2\cos(x - 4) + 1$
(r) $y = 4 - \frac{2}{3}\text{sen}x$
(s) $y = 4 + 5\cos\frac{x}{3}$
(t) $y = 4 - 3\cos\left(2x - \frac{\pi}{3}\right)$

2. Idem

(a) $y = \frac{1}{2}\text{tg}x$
(b) $y = -2\text{cotg}x$
(c) $y = 4\text{cossec}(2x)$
(d) $y = -3\sec\frac{x}{2}$
(e) $y = \text{tg}(4x) + 2$
(f) $y = 3\sec(4x)$
(g) $y = \frac{3}{4}\sec\left(x - \frac{\pi}{6}\right)$
(h) $y = \text{tg}(\pi x - 1)$
(i) $y = \text{cotg}(3x) - 5$
(j) $y = \frac{1}{3}\text{tg}\frac{x}{2}$
(k) $y = \frac{1}{2}\text{tg}\frac{x}{3} - 4$
(l) $y = \text{cossec}(4x) - 2$
(m) $y = -2\sec(4x) - 5$
(n) $y = -\frac{1}{4}\text{cotg}\frac{x}{2}$
(o) $y = \text{cossec}\left(x - \frac{\pi}{3}\right) - 2$
(p) $y = 2\sec\left(4x - \frac{\pi}{4}\right)$
(q) $y = 5\text{tg}\frac{3x}{2} + 3$
(r) $y = -\frac{2}{3}\text{cotg}\left(\frac{x - \pi}{2}\right)$
(s) $y = 5 - \sec\left(x + \frac{\pi}{4}\right)$
(t) $y = \frac{1}{2}\sec\left(2x - \frac{\pi}{3}\right) + 5$