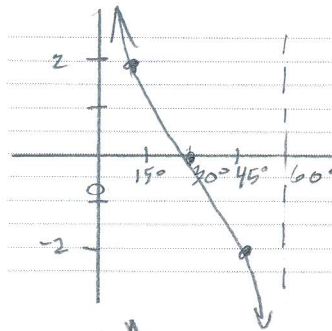


Trig Graphing WS
Cotangent Graphs

Name T. Fuston

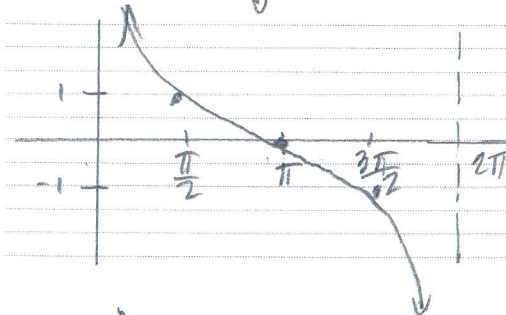
Graph one complete period for each function and give the domain and range (in interval notation) of that period.

1) $y = 2 \cot 3\theta$



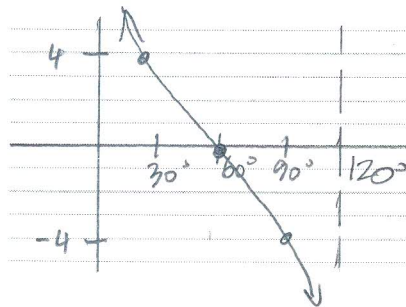
period = 60°
domain $(0^\circ, 60^\circ)$
range $(-\infty, \infty)$

2) $y = \cot \frac{x}{2}$



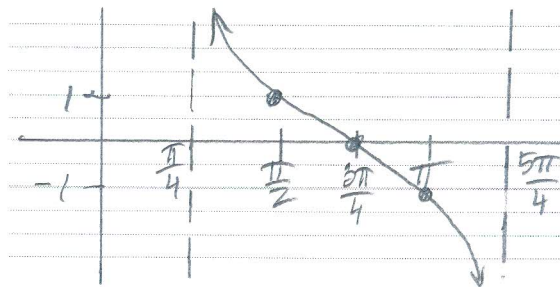
period = 2π
domain $(0, 2\pi)$
range $(-\infty, \infty)$

3) $y = 4 \cot \frac{3\theta}{2}$



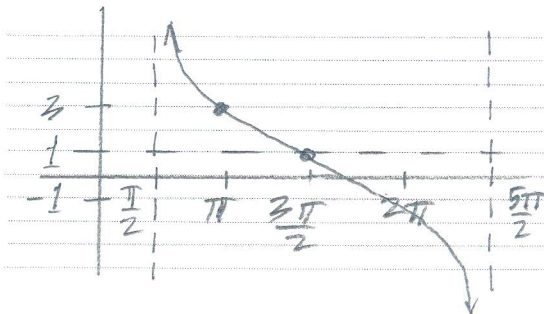
period = 120°
domain $(0^\circ, 120^\circ)$
range $(-\infty, \infty)$

4) $y = \cot\left(x - \frac{\pi}{4}\right)$



period = π
domain: $(\frac{\pi}{4}, \frac{5\pi}{4})$
range $(-\infty, \infty)$

5) $y = 2 \cot\left(\frac{x}{2} - \frac{\pi}{4}\right) + 1$



period = 2π
domain $(\frac{\pi}{2}, \frac{5\pi}{2})$
range $(-\infty, \infty)$