

Find the important information for **one period** of the equation.

1.) $y = 3 \tan x + 4$



A: DNE V.S. ↑ 4

P: π H.S. none

D: $(-\frac{\pi}{2}, \frac{\pi}{2})$

R: $(-\infty, \infty)$

2.) $y = \cot \frac{2}{3} x$



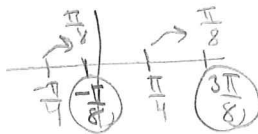
A: DNE V.S. none

P: $\frac{\pi/2}{3} = \frac{3\pi}{2}$ H.S. none

D: $(0, 3\pi/2)$

R: $(-\infty, \infty)$

3.) $y = \tan 2(x - \frac{\pi}{8})$



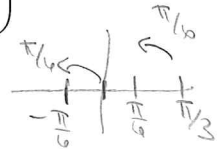
A: DNE V.S. none

P: $\frac{\pi}{2}$ H.S. $\frac{\pi}{8} \rightarrow$

D: $(-\frac{\pi}{8}, \frac{3\pi}{8})$

R: $(-\infty, \infty)$

4.) $y = \cot 3(x + \frac{\pi}{6})$



A: DNE V.S. none

P: $\frac{\pi}{3}$ H.S. $\leftarrow \frac{\pi}{6}$

D: $(-\frac{\pi}{6}, \frac{\pi}{6})$

R: $(-\infty, \infty)$

5.) $y = 2 \cot 5x + 2$



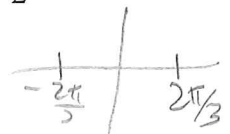
A: DNE V.S. ↑ 2

P: $\frac{\pi}{5}$ H.S. none

D: $(0, \frac{\pi}{5})$

R: $(-\infty, \infty)$

6.) $y = -\tan \frac{3}{4} x - 2$



A: DNE V.S. ↓ 2

P: $\frac{\pi/3}{3/4} = \frac{4\pi}{3}$ H.S. none

D: $(-\frac{2\pi}{3}, \frac{2\pi}{3})$

R: $(-\infty, \infty)$

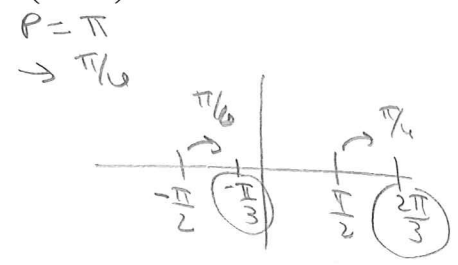
7) Which of the following x-values would contain the asymptotes for: $y = 8 \tan\left(x - \frac{\pi}{6}\right) - 5$?

A.) $-\frac{25\pi}{6}, \frac{5\pi}{6}$

B.) $-\frac{\pi}{3}, \frac{2\pi}{3}$

C.) $-\frac{\pi}{24}, \frac{\pi}{12}$

D.) $-\frac{2\pi}{3}, \frac{\pi}{3}$



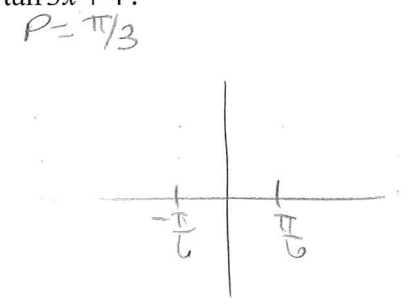
8) Which of the following x-values would contain the asymptotes for: $y = 5 \tan 3x + 4$?

A.) $-\frac{\pi}{10}, \frac{\pi}{10}$

B.) $-\frac{\pi}{6}, \frac{\pi}{6}$

C.) $-\frac{\pi}{20}, -\frac{\pi}{4}$

D.) $-\frac{\pi}{16}, \frac{\pi}{16}$



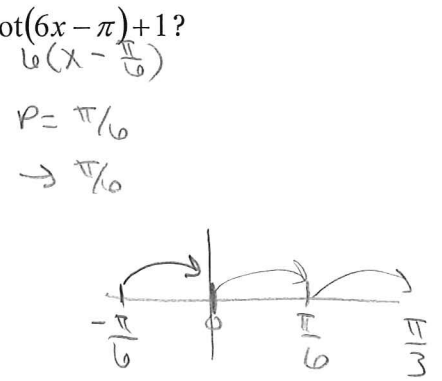
9) Which of the following x-values would contain the asymptotes for: $y = \cot(6x - \pi) + 1$?

A.) $-\frac{\pi}{12}, \frac{\pi}{12}$

B.) $-\frac{\pi}{12}, \frac{\pi}{6}$

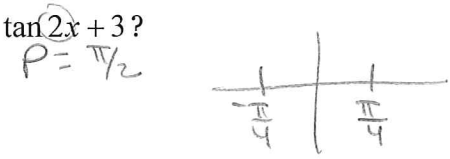
C.) $-\frac{\pi}{6}, \frac{\pi}{12}$

D.) $-\frac{\pi}{6}, 0$



10.) What is the domain, for one period, of the graph: $y = -3 \tan 2x + 3$?

$\left(-\frac{\pi}{4}, \frac{\pi}{4}\right)$



11.) What is the domain, for one period, of the graph: $y = 2 \cot 6x - 5$?

$\left(0, \frac{\pi}{6}\right)$

