Name: _____

Graphs of Tangent and Cotangent Functions

1) Sketch the graph of each of the following trigonometric functions.

1) $y = \tan\left(x + \dfrac{\pi}{3}\right)$

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

3) $y = 3\cot 4x - 3$

4) $y = -\dfrac{1}{2}\tan\left(x - \dfrac{3\pi}{4}\right)$
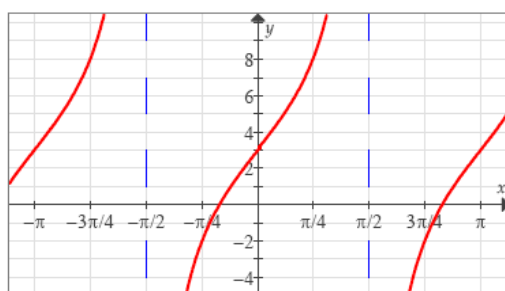
5) $y = 4\tan\dfrac{\pi}{3}x$

6) $y = -4\tan\left(5x + \dfrac{3\pi}{4}\right) + 2$
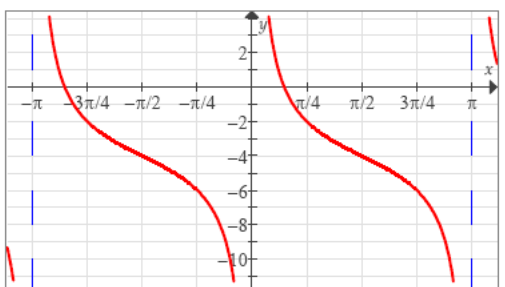
2) For each of the following graphs,
(a) Give an equation of the form $f(x) = A\tan(Bx + C) + D$ which could be used to represent the graph.
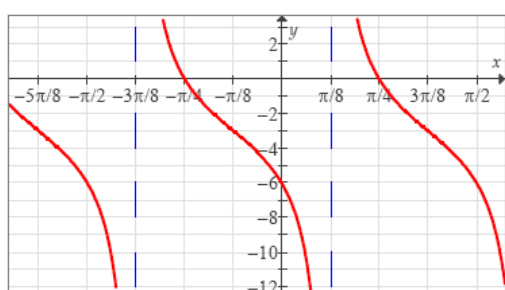(b) Give an equation of the form $f(x) = A\cot(Bx + C) + D$ which could be used to represent the graph.

1)

2)

3)

4)

Grade 11