Graph the following trig functions and state A, B, P, Increment, S.A., SP, Domain and Range.

1.

      a) $y = -4\sin(3x) + 1$

      b) $y = 2\cos(4x) - 5$

      c) $y = 5\sin\left(\dfrac{x}{2} - \pi\right) - 2$

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

      e) $y = \dfrac{1}{2}\csc\left(\dfrac{x}{2}\right)$

      f) $y = -3\sec\left(\dfrac{x}{3}\right) + 4$

      g) $y = -4\csc(4x - \pi) - 2$

      h) $y = 2\sec\left(\dfrac{x}{3} - \dfrac{\pi}{4}\right) + 3$

2.

      a) $y = 2\tan\left(\dfrac{1}{2}x\right) - 6$

      b) $y = 3\cot(2x) + 3$

      c) $y = 4\tan\left(3x - \dfrac{\pi}{6}\right) - 1$

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