PROBLEM:

For each H(z), determine all of the poles and zeros, including those at z = 0 and $z = \infty$. System Function, H(z) Poles and Zeros

- pole at z = -2, zero at z = 0
 pole at z = 2, zero at z = 0
 - 3. poles at $z = \pm 0.9$, zeros at $z = \infty$
 - 4. pole at $z = \frac{1}{2}$, no zeros
 - 5. pole at $z = -\frac{1}{2}$, zero at z = 0
 - 6. pole at z = -2, zero at z = 1
 - 7. poles at z = 0, zeros at $z = e^{\pm j\pi/4}$
 - 8. poles at $z = \pm j0.9$, zeros at z = 0

