## Exercises Week 5

1. Find the Z transform of the following signals:

c.

$$x[n] = \left(\frac{1}{2}\right)^n \sin(\frac{\pi}{3}n) u[n]$$

2. Find all the signals x[n] which have the Z transform

$$X(z) = \frac{7}{(1 - 2z^{-1})(1 + 0.5z^{-1})}$$