Do Now Quiz - Find the zeros of a factored polynomial (A.APR.3) (A.APR.3)

1. Write down the solutions to the following polynomial equation

$$x(x-5)(x+2) = 0$$

- 2. Write down a polynomial function f(x) with roots x = 4, -3, 7
- 7 = 0, 5, -2 f(x) = (x-4)(x+3)(x-7)
- 3. Given f(x) = x(x+5)(x+1)(x-9). Select the true statements.

a.
$$f(5) = 0$$

b f has degree 3.

- c. One of the roots of f is 9. d An ordered pair satisfying the equation is (-1,0)
- 4. Early finishers: write a recursive definition of the sequence $a_1=5, a_2=-15, a_3=45, \dots$

$$a_n = -3 a_{n-1}$$