Lecture 09 Worksheet (ECON211), AY 2025-26 [Date: 05 Aug 2025]

1. Calculate the Effective Annual Rate (EAR) for a 5-year investment with quarterly interest rates delivered to your account in the following manner- Q1-Q4: 1.2%; Q5-Q8: 1.5%; Q9-Q20: 1.8%. Assume all rates are compounded.							
2. Determine the domain and the range of the following function							
$f(x) = \sqrt{16}$	$1-x^2$						

3.	Determine	the doma	in and t	he range	of the f	following	function:

$$f(x) = (x-2)^2 + 6$$

termine the domain and the range of the following function:	

4. Determine the domain and the range of the following function:

$$f(x) = \frac{2}{2 - x}$$

5. The domain of the function is $[0,\infty).$ Calculate the range.

$$f(x) = 6 - 2x$$