6. [8 points] For each of the statements below, circle TRUE or FALSE and *briefly explain* your reasoning. *Credit will only be given for a reasonable explanation—circling alone is no credit.*a. [2 points] A degree-5 polynomial will always have 5 zeros.

-	-	0	-		
$\mathbf{TR}$	UE		FA	LSE	NOT ENOUGH INFORMATION

Explanation:

**b**. [2 points] Because a right triangle cannot contain any angles greater than 90°, we cannot find the sine or cosine of any angles greater than 90°.

TRUE FALSE NOT ENOUGH INFORMATION

Explanation:

c. [2 points] If f(x) is an even function with domain [-4, 4], then f(x) is definitely not invertible.

TRUE FALSE NOT ENOUGH INFORMATION

Explanation:

**d**. [2 points] The function  $w(r) = 0.4e^{0.15r}$  is an exponentially decreasing function of r.

TRUE FALSE NOT ENOUGH INFORMATION

**Explanation**: