

Problem 5: Largest Factor

Determine the largest integer that divides

$$n^5 - 17n^3 + 16n, \quad \text{for all } n \geq 4.$$

It needs to be a fixed integer, not depending on n .

As always, show your work, fully explain and justify your answer.

Posting Date 10/22/2017. Submit solutions to Noah Aydin, RBH 319 (e-mail or hard-copy, but hard copy submissions must include a time stamp) by 4 pm on 11/03/2017.