

# NYU Computer Science Bridge HW6

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## Question 5

Use the definition of  $\theta$  in order to show the following:

a.  $5n^3 + 2n^2 + 3n = \theta(n^3)$

*Proof.* There exist a constant  $c = 10$



b.  $\sqrt{7n^2 + 2n - 8} = \theta(n)$