

# Calculus 3 – Aug 28, 2003

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Take out a 8 1/2 by 11 piece of paper

Write your name and today's date on it

4

Rules:

Show ALL work for credit; be neat. Calculators can be used for graphing and calculating only. Give exact answers when possible.

# Problem

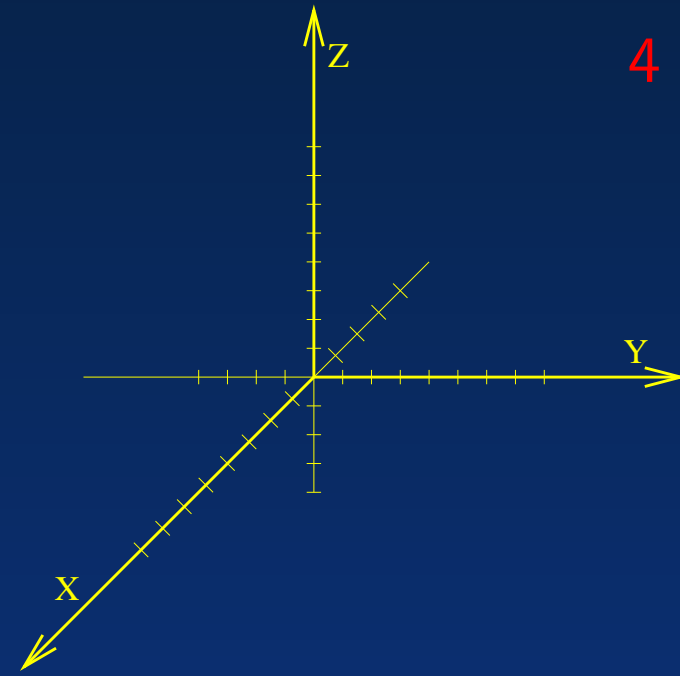
1

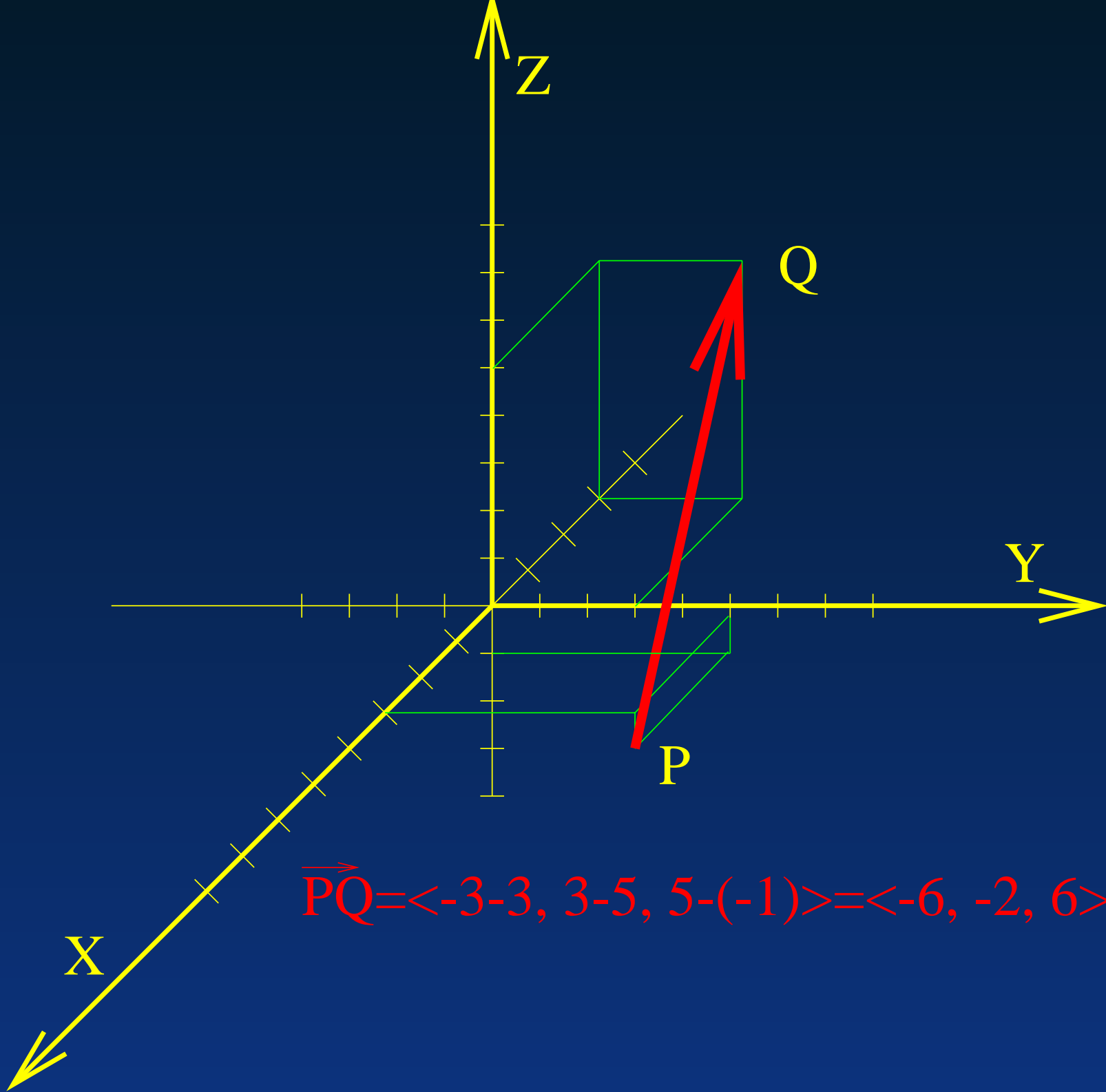
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Plot the points  $P(3, 5, -1)$  and  $Q(-3, 3, 5)$  on a 3D graph with the axes orientated the same way as the graph to the right. Draw the vector  $\vec{PQ}$  and write  $\vec{PQ}$  using the  $\langle ?, ?, ? \rangle$  notation.





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