

Test 3 Review:

Here are a list of questions that you need to study. Do these problems and treat them as your test review. For answers, refer to the answers provided for each of the referenced sections.

Section 13.5: #12, #22 The Chain Rule

Section 13.6: #20, #28, #32 Directional Derivatives

Section 13.7: #18, #20, #26 Tangent Planes and Normal Lines

Section 13.8: #11, #38 Relative and Absolute Extrema

Section 14.2: #20, #24, #29, #42 Double Integrals

Section 14.3: #12, #18, #24 Double Integrals in Polar Coordinates

Section 14.6: #18, #26 Triple Integrals

Section 14.7: #8, #12, #24 Triple Integrals in Cylindrical and Spherical Coordinates

Section 14.8: #13 The Jacobian and Changing Variables