Quiz 12 (Problems)

1. Using $w = f(x, y, z) = 2xy^2 - 4x^3z$,

   a Find an equation of the tangent plane of
   w at $(1, 3, 2)$.

   b Estimate $f(1.02, 3.01, 1.98)$.

Quiz 12 (Answers)

1. (Math-252 Quiz 12)

    a. $-6x + 12y - 4z - 22 = 0$

    b. $f(1.02, 3.01, 1.98) \approx 10.08$