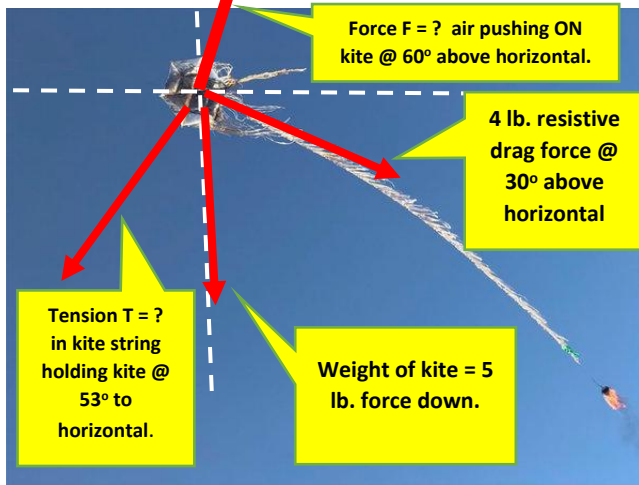


STATICS

Unit 3, Dr. John P. Cise, Professor of Physics, Austin Community College, Austin Texas, USA,

jpcise@austincc.edu & New York Times, June 8, 2018 by David M Halbfinger. Dedicated to my father, John W. Cise, GE Engineer. John W. Cise, BS,MS in Mechanical Engineering , New York University 1943. His four grandsons became Engineers: Berkley, Cambridge, Michigan, Illinois, Colorado

At Gaza Protests: Kites, Drones, Gas, Guns and the Occasional Bomb



INTRODUCTION: To have NO acceleration in either X or Y direction the $\Sigma F_x = 0$ & $\Sigma F_y = 0$. Thus, two equations can be set up to solve for two unknowns.

QUESTIONS: (a) Find force of air on Kite F?, (b) Find tension T in Cord(string) holding kite down?, (c) Check your answers for T & F are correct by substituting them into one of the equations you generated from conditions for static equilibrium. If the equation balances, your answers MUST be correct?

HINTS: With two unknowns you will have to set up two equations and then solve for the two unknowns. You will have to solve two simultaneous equations.

ANSWERS: (a) $F = \sim 58.12$ lb., (b) $T = \sim 54.17$ lb., (c) Equation balances, thus answers must be correct.

Flaming tails turn kites used by Palestinians into weapons, ones that Israel has struggled to defend

itself against. NAHAL OZ, Israel — The last Friday of Ramadan again brought thousands of Palestinians to the fence that separates the Gaza Strip from Israel for a day of peaceful protests, or violent riots, depending on which side you support in the conflict. For me, it was a chance to see things the way Israeli soldiers do. From the drive through smoldering fields and scorched earth to the berms atop which snipers peer through powerful binoculars to compensate for the fog of war — or whatever this fight should be called — there were new signs of damage and destruction, new adjustments in tactics on both sides, but few reasons to think the clashes would end

3/15: The kites seem like child's play: On the Gaza side, boys and teenagers put them together. (Photo: [@abuheweila](https://twitter.com/abuheweila)) pic.twitter.com/VVotqHE3A
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