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Write the four fundamental forces of nature and their relative strengths. (1) The nuclear force, which is the strongest but only relevant on subatomic scales. (2) The electromagnetic force, which occurs between charged particles on microscopic scales. It is times as strong as the nuclear force.

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Fawwaz T. Ulaby, Eric Michielssen, and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2010 Prentice Hall. Problem 1.18 Complex numbers  $z_1$  and  $z_2$  are given by  $z_1 = 3 + j2$  and  $z_2 = 1 - j2$ . Determine (a)  $z_1 z_2$ , (b)  $z_1 = z_2$ , (c)  $z_1^2$ , and (d)  $z_1 z_1^*$ , all in polar form. Solution: (a) We first convert  $z_1$  and  $z_2$

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