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Solution: Let F be some eld and xy=0 for some x;y2F. If x6=0, then there must exist x0, multiplicative inverse of x in F. So we

have xy = 0 )x0(xy) = x0(0))(x0x)y = 0)(1)y = 0)y = 0 Similarly, when y6 = 0, we have x = 0. So xy = 0 implies x = 0 or y = 0. Therefore Fis an integral domain. Hence any eld is an integral domain. 13.

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Closure satisfied by definition

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