Graffiths 7.30

(a) (b)devious. (b) Tutym= In {29"- Juy } =21-41=-21(8) / 1/1/ Ju = Juf / 2g/m - yn yn ? = 2 アプノレーナタレメータハ =217/- (-271)/1 =*2 {ナハナレナナリカ} (9) July of W= July J 2gon - Jul 63 = 2 / 3/2 - 2 Jul Dente = 2 / 3 / 4 9 / 7 6 = 2 + 6 2 2 2 7 - x 1 + 3 - 4 g m) 6 = 48gm-278/1-4gm76 = -2 70 x1x

(b) These sesults follow from the fact that an is just an array of numbers and ne can commute them (11) Jagru= tyragru= -2 das=-2d (8') In d \$ 8 = In & J J M an B ? = 4g^r19,57 = 4a.b (9') In dbd ym= y grydy 6 ym ay 32 Co = -2 8 8 7 1 V av 57 C6 = -2 (8°C) (376 N/3°aL) =-2 & & d