

# Fundamentals Of Applied Electromagnetics

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$z_1 = z_2$ , (c)  $z_2 = 1$ , and (d)  $z_1 = z_2$ , all in polar form. Solution: (a) We first convert  $z_1$  and  $z_2$

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CHAPTER 3 115 Solution: (a) If  $\mathbf{A}$  is parallel to  $\mathbf{B}$ , then their directions are equal or opposite:  $\hat{a}_A = \hat{a}_B$ , or  $\mathbf{A} = k\mathbf{B}$  or  $\mathbf{A} = -k\mathbf{B}$ . For  $\mathbf{A} = x^2\hat{x} + y^3\hat{y} + z^4\hat{z}$  and  $\mathbf{B} = 4x^2\hat{x} + 2y^3\hat{y} + 3z^4\hat{z}$ , we require  $\hat{a}_A = \hat{a}_B$  or  $\hat{a}_A = -\hat{a}_B$ . For  $\hat{a}_A = \hat{a}_B$ , we have  $x^2 = 4x^2$ ,  $y^3 = 2y^3$ , and  $z^4 = 3z^4$ , which are only possible if  $x = 0$ ,  $y = 0$ , and  $z = 0$ . For  $\hat{a}_A = -\hat{a}_B$ , we have  $x^2 = -4x^2$ ,  $y^3 = -2y^3$ , and  $z^4 = -3z^4$ , which are only possible if  $x = 0$ ,  $y = 0$ , and  $z = 0$ . Therefore,  $\mathbf{A}$  and  $\mathbf{B}$  are parallel only if  $\mathbf{A} = \mathbf{B} = \mathbf{0}$ .

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