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**Fig. E1.4 is given by  $u = 5\cos(2\pi t - 8)$ . Of the following four equations: (1)  $u = 5\cos(2\pi t - 8)$ , (2)  $u = 5\cos(2\pi t - 8 + \pi/4)$ , (3)  $u = 5\cos(2\pi t - 8 - \pi/4)$ , (4)  $u = 5\sin(2\pi t - 8)$ , (a) which equation applies to the green wave?**

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**$j^2 z^2 = 1$  Determine (a)  $z_1 z_2$ , (b)  $z_1 = z_2$ , (c)  $z_2 = 1$ , and (d)  $z_1 z_2$ , all all in polar form.**

**Solution: (a) We first convert  $z_1$  and  $z_2$**

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**$= 5\cos(2\pi t - 8)$ . Of the following**

**four equations: (1)  $u$**

**$= 5\cos(2\pi t - 8 + p)$ , (2)  $u$**

**$= 5\cos(2\pi t - 8 - p)$ , (3)  $u =$**

**$5\cos(2\pi t - 8 + p)$ , (4)  $u$**

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