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TrigonometryExercise6 for No.10063

$$No1 = \left[ \begin{array}{ll} .1 = (2 \cos(\theta) - 1 = 0) & .2 = (4 [\cos(\theta)]^2 - 3 = 0) \\ .3 = (\cos(2\theta) = 0) & .4 = (\cos(3\theta) = 1) \end{array} \right]$$

$$No2 = \left[ \begin{array}{ll} .1 = (2 [\sin(\theta)]^2 + 3 \sin(\theta) + 1 = 0) & .2 = (2 [\sin(\theta)]^2 + 3 \cos(\theta) - 3 = 0) \\ .3 = (2 [\sin(\theta)]^2 + \sin(\theta) = 0) & .4 = (\sin(\theta) + \cos(\theta) = \sqrt{2}) \\ .5 = (2 \tan(\theta) \sin(\theta) = \tan(\theta)) & .6 = (4 [\cos(\theta)]^3 - 3 \cos(\theta) = 0) \end{array} \right]$$

$$No3 = \left[ \begin{array}{ll} .1 = (2 \sin(\theta) - 1 = 0) & .2 = (4 [\cos(\theta)]^2 - 1 = 0) \\ .3 = (\sin(2\theta) = 0) & .4 = (\sin(3\theta) = 1) \end{array} \right]$$

$$No4 = \left[ \begin{array}{ll} .1 = (2 [\cos(\theta)]^2 - \cos(\theta) - 1 = 0) & .2 = (2 [\sin(\theta)]^2 - \cos(\theta) - 1 = 0) \\ .3 = (2 [\sin(\theta)]^2 - \sin(\theta) = 0) & .4 = (\cos(\theta) - \sin(\theta) = \sqrt{2}) \\ .5 = (\tan(\theta) \cos(\theta) = \cos(\theta)) & .6 = (4 [\cos(\theta)]^3 - \cos(\theta) = 0) \end{array} \right]$$

$$No5 = \left[ \begin{array}{ll} .1 = (2 \sin(\theta) + 1 = 0) & .2 = (4 [\sin(\theta)]^2 = 1) \\ .3 = (\tan(\theta) \sin(\theta) = \tan(\theta)) & .4 = (3 [\tan(\theta)]^2 - 1 = 0) \end{array} \right]$$

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TrigonometryExercise6 for No.10120

$$No1 = \left[ \begin{array}{ll} .1 = (2 \sin(\theta) + 1 = 0) & .2 = (4 [\sin(\theta)]^2 - 1 = 0) \\ .3 = (\cos(3\theta) = 0) & .4 = (\sin(2\theta) = 1) \end{array} \right]$$

$$No2 = \left[ \begin{array}{ll} .1 = (2 [\cos(\theta)]^2 + 3 \cos(\theta) + 1 = 0) & .2 = (2 [\cos(\theta)]^2 + \sin(\theta) - 1 = 0) \\ .3 = (2 [\sin(\theta)]^2 - \sin(\theta) = 0) & .4 = (\cos(\theta) - \sin(\theta) = \sqrt{2}) \\ .5 = (\tan(\theta) \sin(\theta) = \sin(\theta)) & .6 = (4 [\sin(\theta)]^3 - \sin(\theta) = 0) \end{array} \right]$$

$$No3 = \left[ \begin{array}{ll} .1 = (2 \sin(\theta) - 1 = 0) & .2 = (4 [\sin(\theta)]^2 - 3 = 0) \\ .3 = (\cos(2\theta) = 0) & .4 = (\sin(4\theta) = 1) \end{array} \right]$$

$$No4 = \left[ \begin{array}{ll} .1 = (2 [\sin(\theta)]^2 - 3 \sin(\theta) + 1 = 0) & .2 = (2 [\cos(\theta)]^2 - \sin(\theta) - 1 = 0) \\ .3 = (2 [\cos(\theta)]^2 + \cos(\theta) = 0) & .4 = (\sin(\theta) - \cos(\theta) = \sqrt{2}) \\ .5 = (\tan(\theta) \cos(\theta) = \tan(\theta)) & .6 = (4 [\sin(\theta)]^3 - 3 \sin(\theta) = 0) \end{array} \right]$$

$$No5 = \left[ \begin{array}{ll} .1 = (2 \cos(\theta) - 1 = 0) & .2 = (4 [\cos(\theta)]^2 = 1) \\ .3 = (2 \tan(\theta) \cos(\theta) = \tan(\theta)) & .4 = (3 [\tan(\theta)]^2 - 1 = 0) \end{array} \right]$$

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TrigonometryExercise6 for No.10628

$$No1 = \left[ \begin{array}{l} .1 = (2 \sin(\theta) + 1 = 0) \quad .2 = (4 [\cos(\theta)]^2 - 1 = 0) \\ .3 = (\cos(3 \theta) = 0) \quad .4 = (\sin(3 \theta) = 1) \end{array} \right]$$

$$No2 = \left[ \begin{array}{l} .1 = (2 [\sin(\theta)]^2 + \sin(\theta) - 1 = 0) \quad .2 = (2 [\cos(\theta)]^2 - 3 \sin(\theta) - 3 = 0) \\ .3 = (2 [\sin(\theta)]^2 - \sin(\theta) = 0) \quad .4 = (\sin(\theta) + \cos(\theta) = \sqrt{2}) \\ .5 = (\tan(\theta) \cos(\theta) = \cos(\theta)) \quad .6 = (4 [\cos(\theta)]^3 - 3 \cos(\theta) = 0) \end{array} \right]$$

$$No3 = \left[ \begin{array}{l} .1 = (2 \sin(\theta) - 1 = 0) \quad .2 = (4 [\sin(\theta)]^2 - 3 = 0) \\ .3 = (\sin(4 \theta) = 0) \quad .4 = (\cos(4 \theta) = 1) \end{array} \right]$$

$$No4 = \left[ \begin{array}{l} .1 = (2 [\sin(\theta)]^2 - \sin(\theta) - 1 = 0) \quad .2 = (2 [\sin(\theta)]^2 + 3 \cos(\theta) - 3 = 0) \\ .3 = (2 [\cos(\theta)]^2 + \cos(\theta) = 0) \quad .4 = (\cos(\theta) - \sin(\theta) = \sqrt{2}) \\ .5 = (2 \tan(\theta) \cos(\theta) = \tan(\theta)) \quad .6 = (4 [\cos(\theta)]^3 - \cos(\theta) = 0) \end{array} \right]$$

$$No5 = \left[ \begin{array}{l} .1 = (2 \cos(\theta) - 1 = 0) \quad .2 = (4 [\cos(\theta)]^2 = 3) \\ .3 = (\tan(\theta) \sin(\theta) = \tan(\theta)) \quad .4 = ([\tan(\theta)]^2 - 3 = 0) \end{array} \right]$$

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TrigonometryExercise6 for No.11408

$$No1 = \left[ \begin{array}{l} .1 = (2 \sin(\theta) - 1 = 0) \quad .2 = (4 [\cos(\theta)]^2 - 1 = 0) \\ .3 = (\cos(4 \theta) = 0) \quad .4 = (\sin(2 \theta) = 1) \end{array} \right]$$

$$No2 = \left[ \begin{array}{l} .1 = (2 [\cos(\theta)]^2 - \cos(\theta) - 1 = 0) \quad .2 = (2 [\cos(\theta)]^2 - \sin(\theta) - 1 = 0) \\ .3 = (2 [\sin(\theta)]^2 - \sin(\theta) = 0) \quad .4 = (\sin(\theta) - \cos(\theta) = \sqrt{2}) \\ .5 = (2 \tan(\theta) \sin(\theta) = \tan(\theta)) \quad .6 = (4 [\cos(\theta)]^3 - 3 \cos(\theta) = 0) \end{array} \right]$$

$$No3 = \left[ \begin{array}{l} .1 = (2 \sin(\theta) + 1 = 0) \quad .2 = (4 [\cos(\theta)]^2 - 3 = 0) \\ .3 = (\sin(4 \theta) = 0) \quad .4 = (\cos(2 \theta) = 1) \end{array} \right]$$

$$No4 = \left[ \begin{array}{l} .1 = (2 [\cos(\theta)]^2 - 3 \cos(\theta) + 1 = 0) \quad .2 = (2 [\sin(\theta)]^2 - 3 \cos(\theta) - 3 = 0) \\ .3 = (2 [\cos(\theta)]^2 + \cos(\theta) = 0) \quad .4 = (\cos(\theta) - \sin(\theta) = \sqrt{2}) \\ .5 = (\tan(\theta) \sin(\theta) = \sin(\theta)) \quad .6 = (4 [\sin(\theta)]^3 - \sin(\theta) = 0) \end{array} \right]$$

$$No5 = \left[ \begin{array}{l} .1 = (2 \cos(\theta) - 1 = 0) \quad .2 = (4 [\sin(\theta)]^2 = 3) \\ .3 = (\tan(\theta) \cos(\theta) = \tan(\theta)) \quad .4 = ([\tan(\theta)]^2 - 3 = 0) \end{array} \right]$$

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TrigonometryExercise6 for No.11560

$$\begin{aligned}No1 &= \begin{bmatrix} .1 = (2 \sin(\theta) + 1 = 0) & .2 = (4 [\sin(\theta)]^2 - 3 = 0) \\ .3 = (\sin(2\theta) = 0) & .4 = (\cos(2\theta) = 1) \end{bmatrix} \\ No2 &= \begin{bmatrix} .1 = (2 [\cos(\theta)]^2 + \cos(\theta) - 1 = 0) & .2 = (2 [\sin(\theta)]^2 + 3 \cos(\theta) - 3 = 0) \\ .3 = (2 [\cos(\theta)]^2 + \cos(\theta) = 0) & .4 = (\sin(\theta) - \cos(\theta) = \sqrt{2}) \\ .5 = (\tan(\theta) \cos(\theta) = \tan(\theta)) & .6 = (4 [\sin(\theta)]^3 - 3 \sin(\theta) = 0) \end{bmatrix} \\ No3 &= \begin{bmatrix} .1 = (2 \sin(\theta) - 1 = 0) & .2 = (4 [\cos(\theta)]^2 - 3 = 0) \\ .3 = (\sin(4\theta) = 0) & .4 = (\sin(3\theta) = 1) \end{bmatrix} \\ No4 &= \begin{bmatrix} .1 = (2 [\sin(\theta)]^2 - \sin(\theta) - 1 = 0) & .2 = (2 [\sin(\theta)]^2 - 3 \cos(\theta) - 3 = 0) \\ .3 = (2 [\cos(\theta)]^2 - \cos(\theta) = 0) & .4 = (\cos(\theta) - \sin(\theta) = \sqrt{2}) \\ .5 = (\tan(\theta) \cos(\theta) = \cos(\theta)) & .6 = (4 [\cos(\theta)]^3 - \cos(\theta) = 0) \end{bmatrix} \\ No5 &= \begin{bmatrix} .1 = (2 \cos(\theta) - 1 = 0) & .2 = (4 [\sin(\theta)]^2 = 1) \\ .3 = (\tan(\theta) \sin(\theta) = \sin(\theta)) & .4 = ([\tan(\theta)]^2 - 3 = 0) \end{bmatrix}\end{aligned}$$

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TrigonometryExercise6 for No.11806

$$\begin{aligned}No1 &= \begin{bmatrix} .1 = (2 \sin(\theta) - 1 = 0) & .2 = (4 [\sin(\theta)]^2 - 3 = 0) \\ .3 = (\cos(2\theta) = 0) & .4 = (\sin(4\theta) = 1) \end{bmatrix} \\ No2 &= \begin{bmatrix} .1 = (2 [\sin(\theta)]^2 + \sin(\theta) - 1 = 0) & .2 = (2 [\sin(\theta)]^2 + 3 \cos(\theta) - 3 = 0) \\ .3 = (2 [\sin(\theta)]^2 - \sin(\theta) = 0) & .4 = (\sin(\theta) + \cos(\theta) = \sqrt{2}) \\ .5 = (\tan(\theta) \sin(\theta) = \tan(\theta)) & .6 = (4 [\cos(\theta)]^3 - 3 \cos(\theta) = 0) \end{bmatrix} \\ No3 &= \begin{bmatrix} .1 = (2 \sin(\theta) + 1 = 0) & .2 = (4 [\sin(\theta)]^2 - 1 = 0) \\ .3 = (\sin(3\theta) = 0) & .4 = (\cos(3\theta) = 1) \end{bmatrix} \\ No4 &= \begin{bmatrix} .1 = (2 [\cos(\theta)]^2 - \cos(\theta) - 1 = 0) & .2 = (2 [\cos(\theta)]^2 - 3 \sin(\theta) - 3 = 0) \\ .3 = (2 [\cos(\theta)]^2 + \cos(\theta) = 0) & .4 = (\sin(\theta) - \cos(\theta) = \sqrt{2}) \\ .5 = (\tan(\theta) \cos(\theta) = \tan(\theta)) & .6 = (4 [\sin(\theta)]^3 - 3 \sin(\theta) = 0) \end{bmatrix} \\ No5 &= \begin{bmatrix} .1 = (2 \cos(\theta) - 1 = 0) & .2 = (4 [\cos(\theta)]^2 = 3) \\ .3 = (\tan(\theta) \cos(\theta) = \cos(\theta)) & .4 = ([\tan(\theta)]^2 - 3 = 0) \end{bmatrix}\end{aligned}$$

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 TrigonometryExercise6 for No.12219

$$\begin{aligned}
 No1 &= \left[ \begin{aligned} .1 &= (2 \sin(\theta) + 1 = 0) & .2 &= (4 [\cos(\theta)]^2 - 3 = 0) \\ .3 &= (\cos(4 \theta) = 0) & .4 &= (\sin(4 \theta) = 1) \end{aligned} \right] \\
 No2 &= \left[ \begin{aligned} .1 &= (2 [\cos(\theta)]^2 + 3 \cos(\theta) + 1 = 0) & .2 &= (2 [\sin(\theta)]^2 + \cos(\theta) - 1 = 0) \\ .3 &= (2 [\cos(\theta)]^2 + \cos(\theta) = 0) & .4 &= (\cos(\theta) - \sin(\theta) = \sqrt{2}) \\ .5 &= (\tan(\theta) \cos(\theta) = \tan(\theta)) & .6 &= (4 [\sin(\theta)]^3 - 3 \sin(\theta) = 0) \end{aligned} \right] \\
 No3 &= \left[ \begin{aligned} .1 &= (2 \cos(\theta) - 1 = 0) & .2 &= (4 [\sin(\theta)]^2 - 3 = 0) \\ .3 &= (\cos(2 \theta) = 0) & .4 &= (\sin(2 \theta) = 1) \end{aligned} \right] \\
 No4 &= \left[ \begin{aligned} .1 &= (2 [\cos(\theta)]^2 + \cos(\theta) - 1 = 0) & .2 &= (2 [\sin(\theta)]^2 + 3 \cos(\theta) - 3 = 0) \\ .3 &= (2 [\cos(\theta)]^2 - \cos(\theta) = 0) & .4 &= (\sin(\theta) + \cos(\theta) = \sqrt{2}) \\ .5 &= (2 \tan(\theta) \sin(\theta) = \tan(\theta)) & .6 &= (4 [\cos(\theta)]^3 - \cos(\theta) = 0) \end{aligned} \right] \\
 No5 &= \left[ \begin{aligned} .1 &= (2 \sin(\theta) - 1 = 0) & .2 &= (4 [\sin(\theta)]^2 = 1) \\ .3 &= (2 \tan(\theta) \cos(\theta) = \tan(\theta)) & .4 &= (3 [\tan(\theta)]^2 - 1 = 0) \end{aligned} \right]
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 TrigonometryExercise6 for No.12954

$$\begin{aligned}
 No1 &= \left[ \begin{aligned} .1 &= (2 \sin(\theta) + 1 = 0) & .2 &= (4 [\cos(\theta)]^2 - 1 = 0) \\ .3 &= (\cos(4 \theta) = 0) & .4 &= (\sin(4 \theta) = 1) \end{aligned} \right] \\
 No2 &= \left[ \begin{aligned} .1 &= (2 [\cos(\theta)]^2 - \cos(\theta) - 1 = 0) & .2 &= (2 [\cos(\theta)]^2 + 3 \sin(\theta) - 3 = 0) \\ .3 &= (2 [\sin(\theta)]^2 + \sin(\theta) = 0) & .4 &= (\sin(\theta) - \cos(\theta) = \sqrt{2}) \\ .5 &= (2 \tan(\theta) \cos(\theta) = \tan(\theta)) & .6 &= (4 [\cos(\theta)]^3 - \cos(\theta) = 0) \end{aligned} \right] \\
 No3 &= \left[ \begin{aligned} .1 &= (2 \cos(\theta) - 1 = 0) & .2 &= (4 [\sin(\theta)]^2 - 3 = 0) \\ .3 &= (\sin(2 \theta) = 0) & .4 &= (\sin(3 \theta) = 1) \end{aligned} \right] \\
 No4 &= \left[ \begin{aligned} .1 &= (2 [\sin(\theta)]^2 + 3 \sin(\theta) + 1 = 0) & .2 &= (2 [\cos(\theta)]^2 - \sin(\theta) - 1 = 0) \\ .3 &= (2 [\sin(\theta)]^2 - \sin(\theta) = 0) & .4 &= (\cos(\theta) - \sin(\theta) = \sqrt{2}) \\ .5 &= (\tan(\theta) \sin(\theta) = \tan(\theta)) & .6 &= (4 [\sin(\theta)]^3 - 3 \sin(\theta) = 0) \end{aligned} \right] \\
 No5 &= \left[ \begin{aligned} .1 &= (2 \sin(\theta) - 1 = 0) & .2 &= (4 [\sin(\theta)]^2 = 1) \\ .3 &= (2 \tan(\theta) \sin(\theta) = \tan(\theta)) & .4 &= ([\tan(\theta)]^2 - 3 = 0) \end{aligned} \right]
 \end{aligned}$$

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