Match-Up

**Trigonometric Identities**

|  |  |  |  |
| --- | --- | --- | --- |
| **1** | $$\frac{\sin(θ)}{\tan(θ)}$$ | **7** | $$\frac{sin^{2}θ}{\cos(θ)}$$ |
| **2** | $$1-cos^{2}θ$$ | **8** | $$\frac{\tan(θ)+\sin(θ)}{\tan(θ)}$$ |
| **3** | $$cos^{2}θ+\sin(θ)+sin^{2}θ$$ | **9** | $$cos^{4}θ+sin^{2}θcos^{2}θ$$ |
| **4** | $$\frac{1-cos^{2}θ}{1-sin^{2}θ}$$ | **10** | $$\frac{1-sin^{2}θ}{\sin(θ)\cos(θ)}$$ |
| **5** | $$2-2sin^{2}θ$$ | **11** | $$\frac{cos^{2}θ-sin^{2}θ}{\cos(θ)+\sin(θ)}$$ |
| **6** | $$\frac{\sin(θ)}{\sqrt{1-sin^{2}θ}}$$ | **12** | $$(\sin(θ)+\cos(θ))^{2}$$ |

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| --- | --- | --- | --- | --- | --- |
| **A** | $$tan^{2}θ$$ | **E** | $$\frac{1}{\tan(θ)}$$ | **I** | $$2cos^{2}θ$$ |
| **B** | $$1+\cos(θ)$$ | **F** | $$sin^{2}θ$$ | **J** | $$1+2\sin(θ)\cos(θ)$$ |
| **C** | $$cos^{2}θ$$ | **G** | $$\cos(θ)-\sin(θ)$$ | **K** | $$\cos(θ)$$ |
| **D** | $$\sin(θ)\tan(θ)$$ | **H** | $$\tan(θ)$$ | **L** | $$1+\sin(θ)$$ |

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| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** |
|  |  |  |  |  |  |  |  |  |  |  |  |