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Math 222- Timed exercise -4- (53402)

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ID: \_\_\_\_\_\_\_\_\_\_\_\_ Marks:

 **Choose the correct answer**

1. $\frac{csc^{2}x}{1+tan^{2}x} $ **is equal to**

 **(a)** $tan^{2}x$ **(b)** $-cot^{2}x$ **(c)** $cot^{2}x$ **(d)** $-tan^{2}x$

1. $tan^{2}x-sin^{2}x$ **is equal to**

 **(a)**$ tan^{2}x$ **(b)** $ sin^{2}x$ **(c)** $tan^{2}xsin^{2}x$ **(d) 1**

1. $\frac{1+cscβ}{cotβ+cosβ}$ **is equal to**

 **(a)** $secβ$ **(b)** $cosβ$ **(c)** $cotβ$ **(d)** $cscβ$

1. $\frac{sec^{2}x-1}{sec^{2}x}$ **is equal to**

 **(a)** $-sin^{2}x$ **(b)** $sin^{2}x$ **(c)** $sinx$ **(d)** $cos^{2}x$

1. $\frac{secβ+cscβ}{1+tanβ}$ **is equal to**

 **(a)** $sinβ$ **(b)** $sin^{2}β$ **(c)** $cos^{2}β$ **(d)** $cosβ$