

10. Two trigonometric identities are given by:

$$(a) \cos^2 x - \sin^2 x = 1 - 2\sin^2 x \quad (b) \frac{\tan x}{\sin x - 2\tan x} = \frac{1}{\cos x - 2}$$

For each part, verify that the identity is correct by calculating the values of the left and right sides of the equation, substituting $x = \pi/10$.

Solution

```
>> x=pi/10;
>> % Part (a)
>> Left=cos(x)^2-sin(x)^2
Left =
    0.8090
>> Right=1-2*sin(x)^2
Right =
    0.8090
>> % Part (b)
>> Left=tan(x)/(sin(x)-2*tan(x))
Left =
   -0.9533
>> Right=1/(cos(x)-2)
Right =
   -0.9533
```

11. Two trigonometric identities are given by:

$$(a) (\sin x + \cos x)^2 = 1 + 2\sin x \cos x \quad (b) \frac{1-2\cos x-3\cos^2 x}{\sin^2 x} = \frac{1-3\cos x}{1-\cos x}$$

For each part, verify that the identity is correct by calculating the values of the left and right sides of the equation, substituting $x = 20^\circ$.

Solution

```
>> x=20;
>> % Part (a)
>> Left=(sind(x)+cosd(x))^2
Left =
    1.6428
>> Right=1+2*sind(x)*cosd(x)
Right =
    1.6428
>> % Part (b)
>> Left=(1-2*cosd(x)-3*cosd(x)^2)/sind(x)^2
Left =
```

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Singiresu S. Rao



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