

## Answers to Worksheet 28 - Lesson 76

1) (a) even (b) neither (c) even (d) odd

2) (a) odd (b) even (c) odd (d) neither

3)  $\cos(x) \tan(x) = \sin(x) = 1/\csc(x)$

4)  $\cot(x)/\csc(x) = \cot(x) \sin(x) = \cos(x)$

5)  $-\sin(-\theta)\cos\left(\frac{\pi}{2} - \theta\right) = -\sin(-\theta)\sin(\theta) = \sin^2 \theta$

6)  $\sin(x)\sec(x) = \frac{\sin x}{\cos x} = \tan x$

7)  $\cot(x)\sec(x) = \frac{1}{\sin x} = \csc x$

8)  $\sin(-\theta)\tan\left(\frac{\pi}{2} - \theta\right) = -\sin(\theta)\cot(\theta) = -\cos(\theta)$