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

3) 
$$\cos(x) \tan(x) = \sin(x) = 1/\csc(x)$$
 4)  $\cot(x)/\csc(x) = \cot(x) \sin(x)$   
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)  $\sin(-\theta)\tan\left(\frac{\pi}{2} - \theta\right) = -\sin(\theta)\cot(\theta) = -\cos(\theta)$