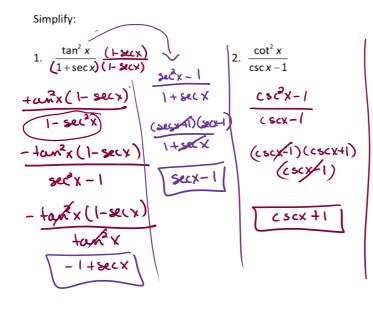
Honors Precalculus Opener 5.1 Day 2 Name____



3.
$$\frac{2-\sin^{2}x-2\cos x}{\cos x-1}$$

$$\Rightarrow \frac{2-(1-\cos^{2}x)-2\cos x}{\cos x-1}$$

$$\Rightarrow \frac{2-1+\cos^{2}x-2\cos x}{\cos x-1}$$

$$\Rightarrow \frac{2-1+\cos^{2}x-2\cos x}{\cos x-1}$$

$$\Rightarrow \frac{\cos^{2}x-2\cos x+1}{\cos x-1}$$

$$\Rightarrow \cos^{2}x-1$$

$$\Rightarrow \cos^{2}x-1$$

Solve:

4.
$$xy^2 = x$$

 $xy^2 - x = 0$
 $x(y^2 - 1) = 0$

$$x(y^{2}-1)=0$$

 $x(y-1)(y+1)=0$

5.
$$3x^2 + 4x = -1$$

6.
$$4y^2 - 9 = 0$$

 $(2y - 3)(2y + 3) = 0$

