1. One of the following equations is an identity and the other is a conditional equation. Identify each and explain the difference between the two.

(1)
$$3(2x-3) = 3(3-2x)$$

(2) 3(2x-3) = 6x - 9

2. One of the following equations is an identity and the other is a conditional equation. Identify each and explain the difference between the two.

(1)
$$\sin x + \cos x = 1$$

(2) $\sin^2 x = 1 - \cos^2 x$

3. Is the equation an identity? Explain. $(x + 3)^2 = x^2 + 9$

Name _____