

Each problem is worth 5 points. For full credit indicate clearly how you reached your answer.

1. State your favorite trig identity involving  $\sin^2 \theta$  and  $\cos^2 \theta$ .

$$\underline{\sin^2 \theta + \cos^2 \theta = 1}$$

Great!

Whenever you see that equation in a problem you can substitute it for it and other way around.

2. State the difference identity for cosine.

$$\underline{\underline{\cos(\alpha - \beta) = \cos \alpha \cos \beta + \sin \alpha \sin \beta}}$$

Excellent