10-5 A Proofs

Simplify

1. $\cos\Theta \bullet \sin\Theta \bullet \cot\Theta \bullet \tan\Theta \bullet \csc\Theta$

2. $\cot\Theta \bullet \cos\Theta \bullet \sin\Theta$

3. $\tan\Theta \bullet \sec\Theta \bullet \sin\Theta$

4. $\dfrac{\tan\theta}{\cot\theta}$

5. $\dfrac{\cos\theta \bullet \csc\theta}{\tan\theta}$

10-5 B Proofs

"Sum and Difference" identities

$\cos(\alpha \pm \beta) = \cos\alpha\cos\beta \mp \sin\alpha\sin\beta$

$\sin(\alpha \pm \beta) = \sin\alpha\cos\beta \pm \cos\alpha\sin\beta$

Simplify

1. $\cos(90° + \theta)$

2. $\cos(180° - \theta)$

3. $\sin(90° - \theta)$

4. $\cos(270° + \theta)$

5. $\sin(180° + \theta)$