Trigonometric Identities

Directions: *Using the identities you have learned, verify or simplify the following problems.*

1. Verify the identity: cot Ɵ = cscƟcosƟ
2. Verify the identity: cscƟ – sinƟ = cotƟcosƟ
3. Simplify the trigonometric expression: sinƟsecƟcotƟ
4. Simplify the trigonometric expression: sin2Ɵ + cos2Ɵ + tan2Ɵ
5. Simplify the trigonometric expression: (sin2ƟcscƟsecƟ)/tanƟ