

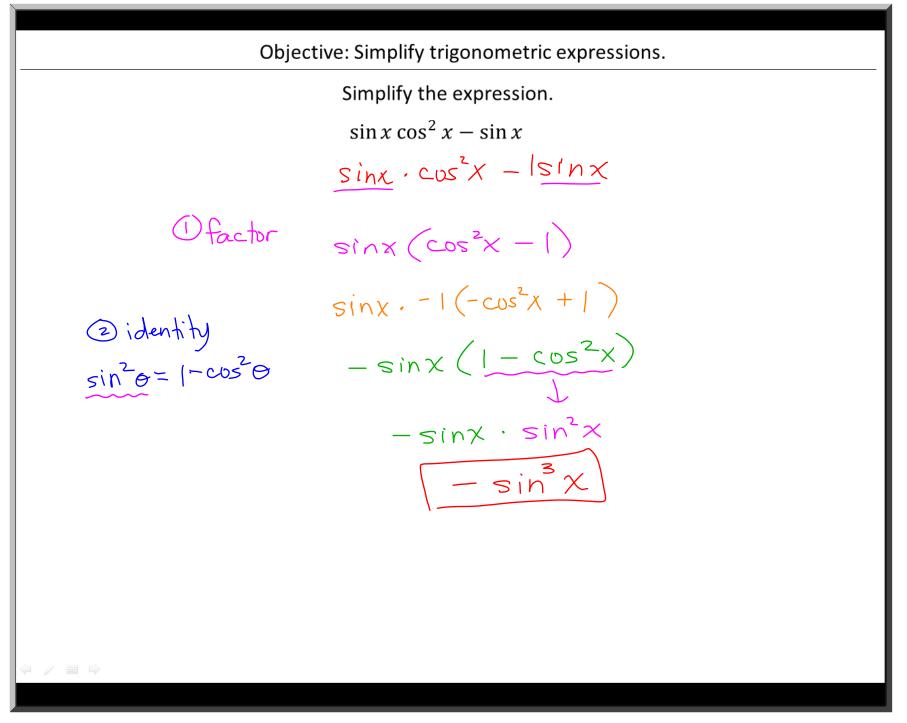
Quotient Identities

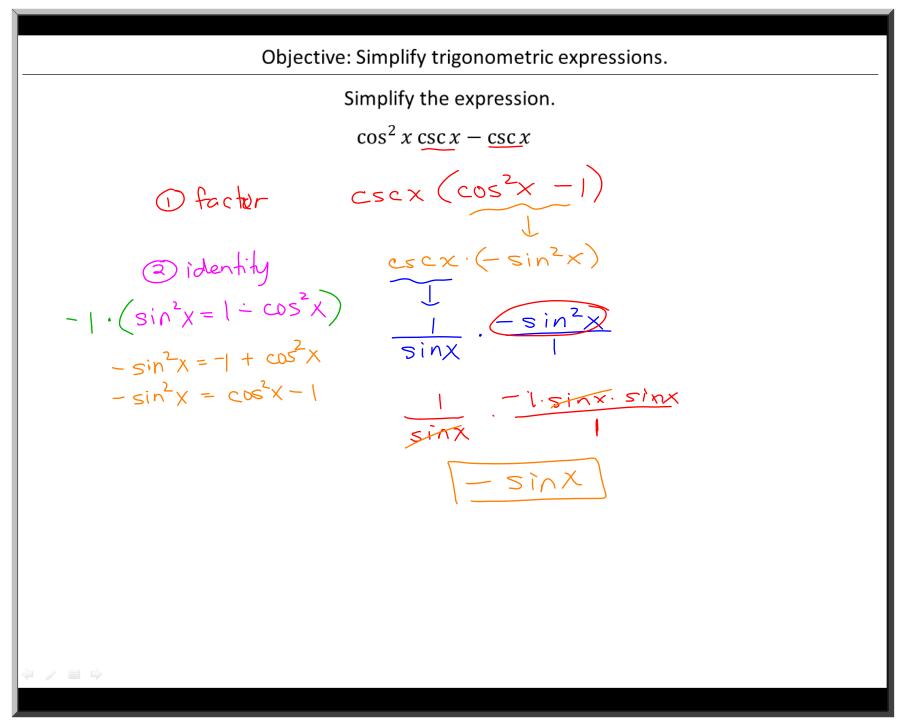
$\tan\theta = \frac{\sin\theta}{\cos\theta}$	$\cot \theta = \frac{\cos \theta}{\sin \theta}$
cos θ	sin θ

Objective: Simplify trigonometric expressions. <u>Concept</u> <u>Strategies for Simplifying a Trigonometric Expression</u> 1. Substitute using identities. 2. Factor. 3. Distribute. 4. Get a common denominator. 5. Multiply by a ratio of 1. 6. Rewrite in terms of sine and cosine.

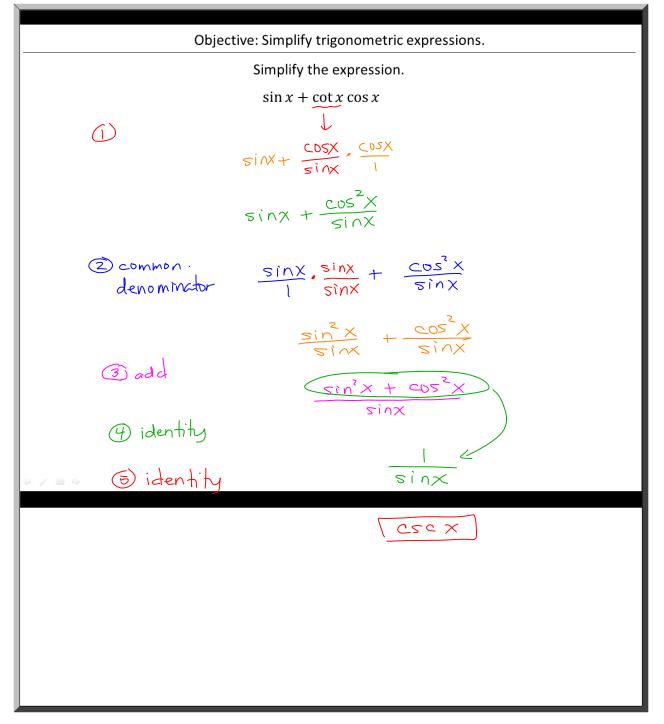
Recognizing a Simplified Trigonometric Expression

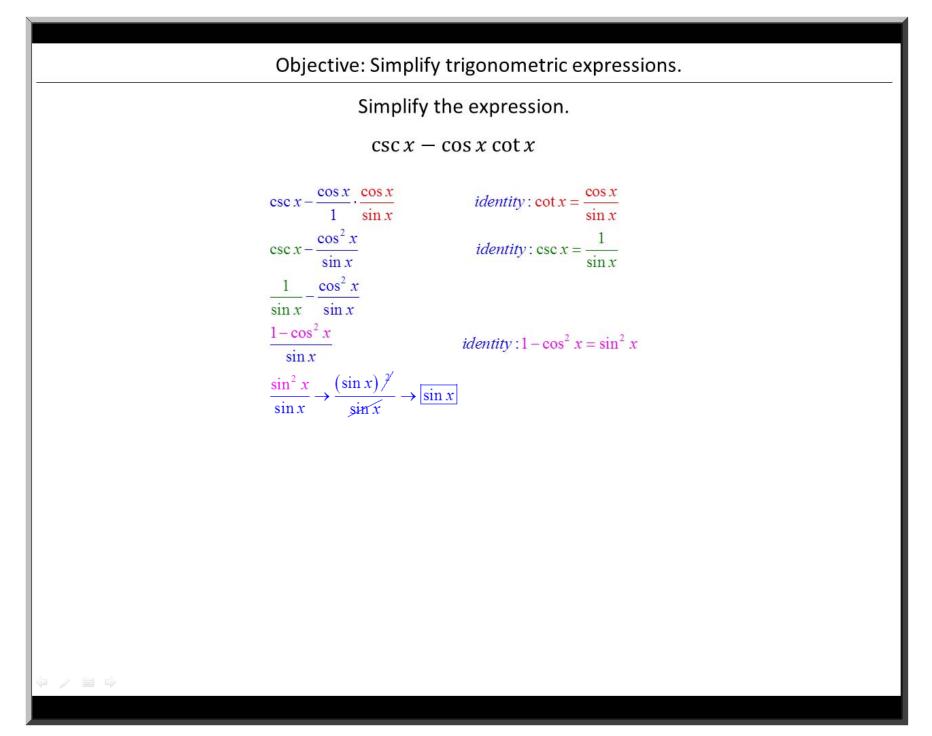
- 1. The expression is written in terms of a single trigonometric function.
- 2. The expression does not involve any fraction forms.
- 3. No more identities can be used to further simplify the expression.

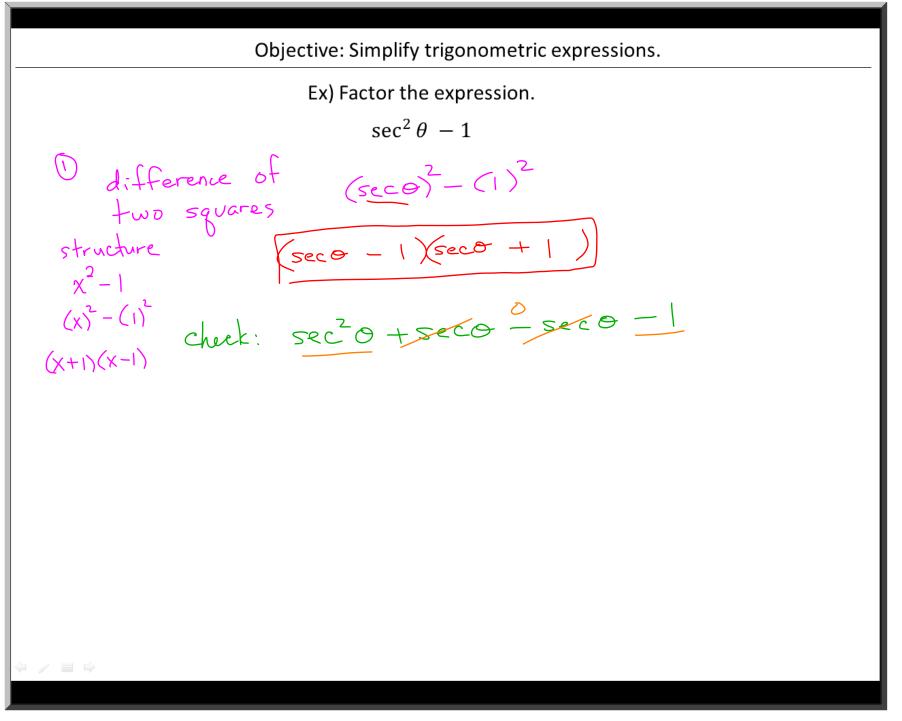


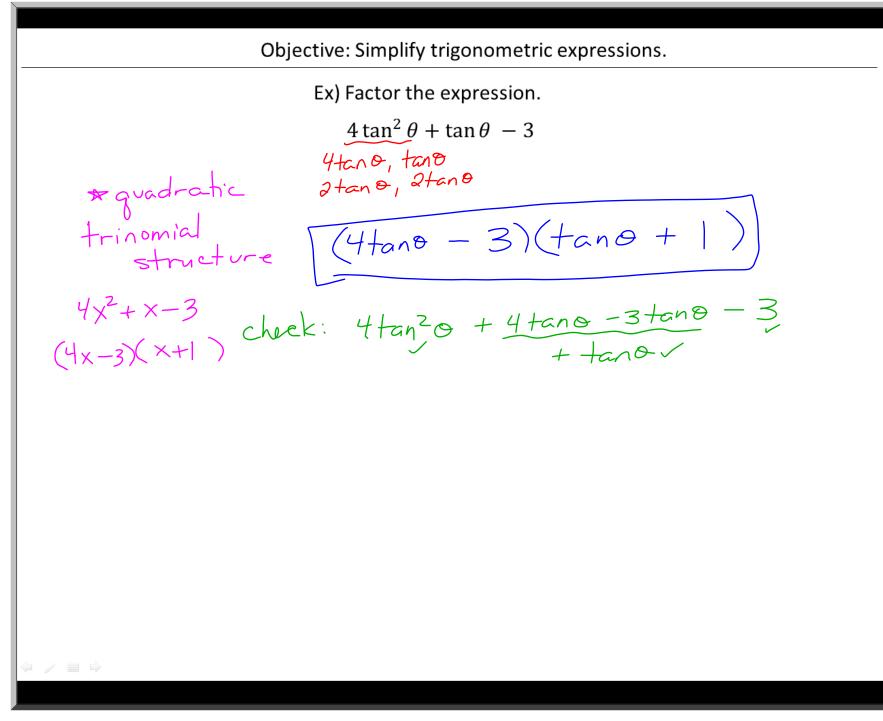


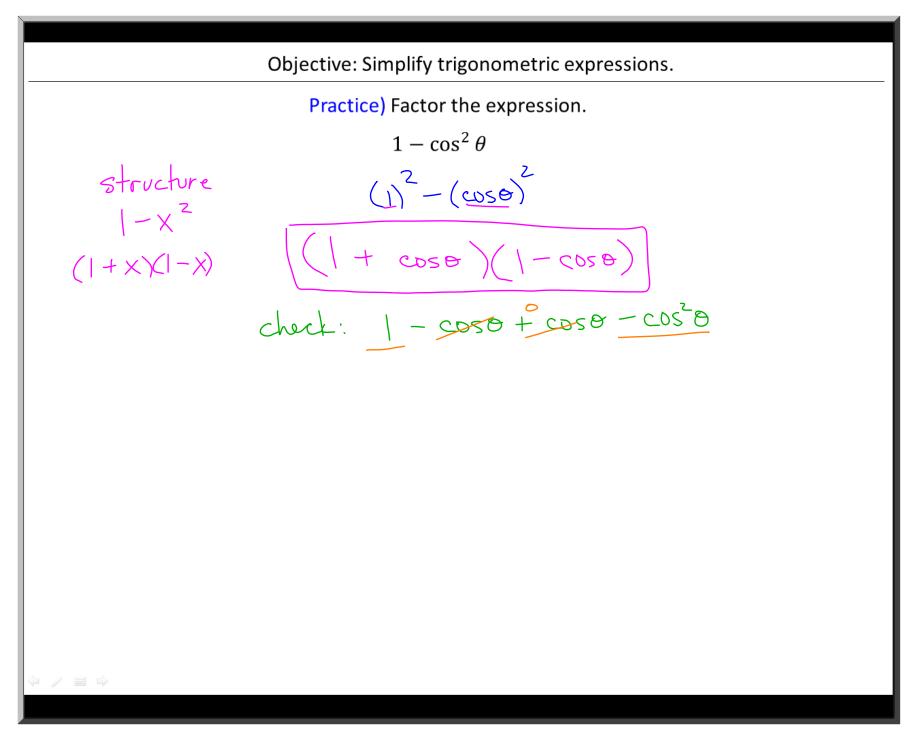
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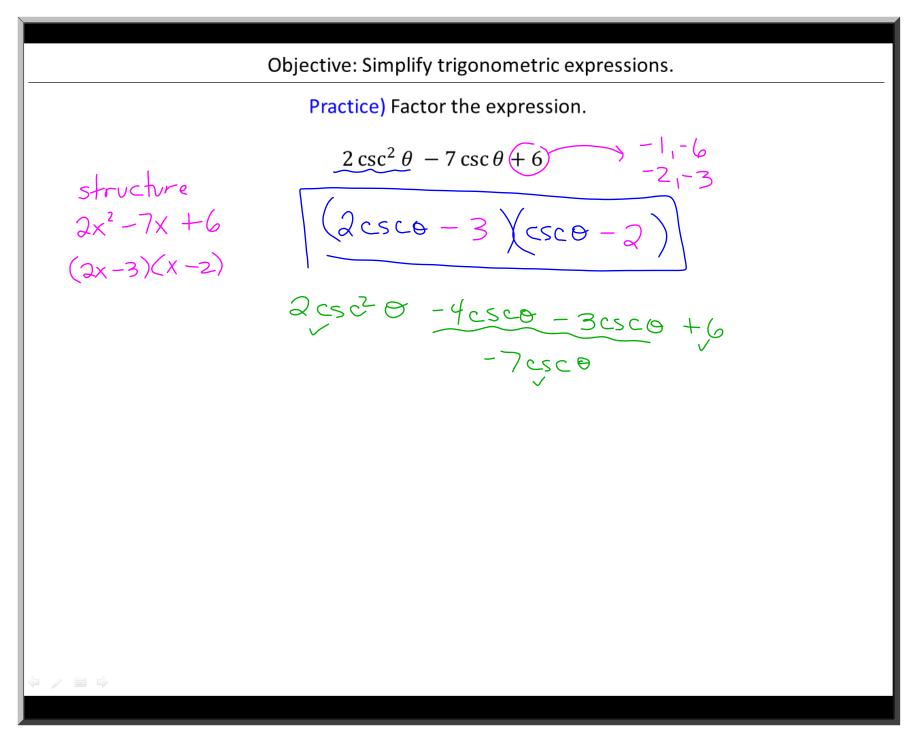












Objective: Simplify trigonometric expressions.

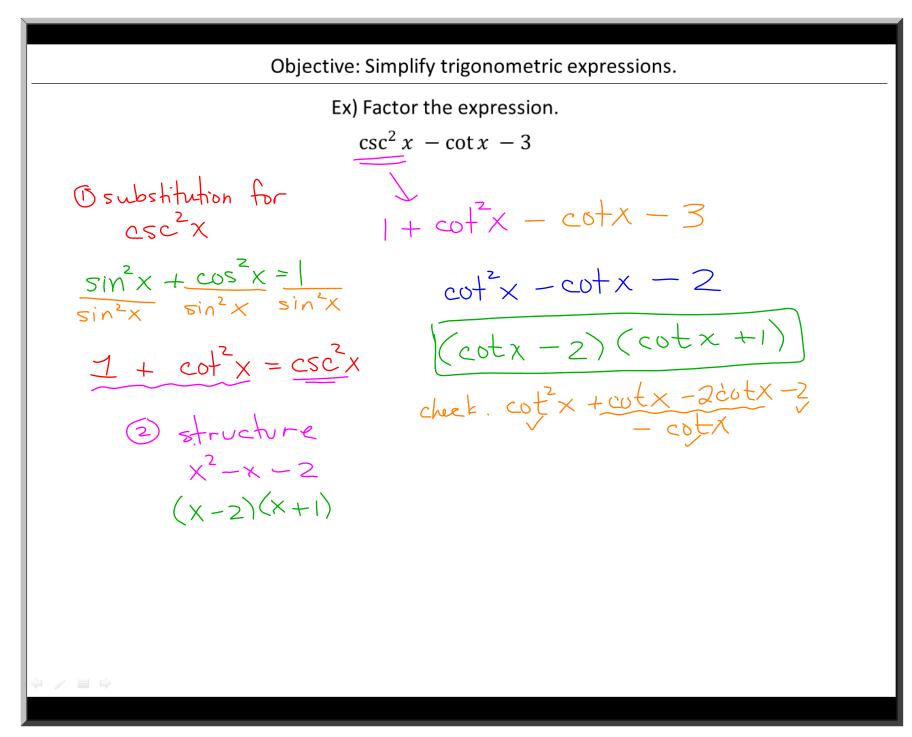
Practice) Factor the expression.

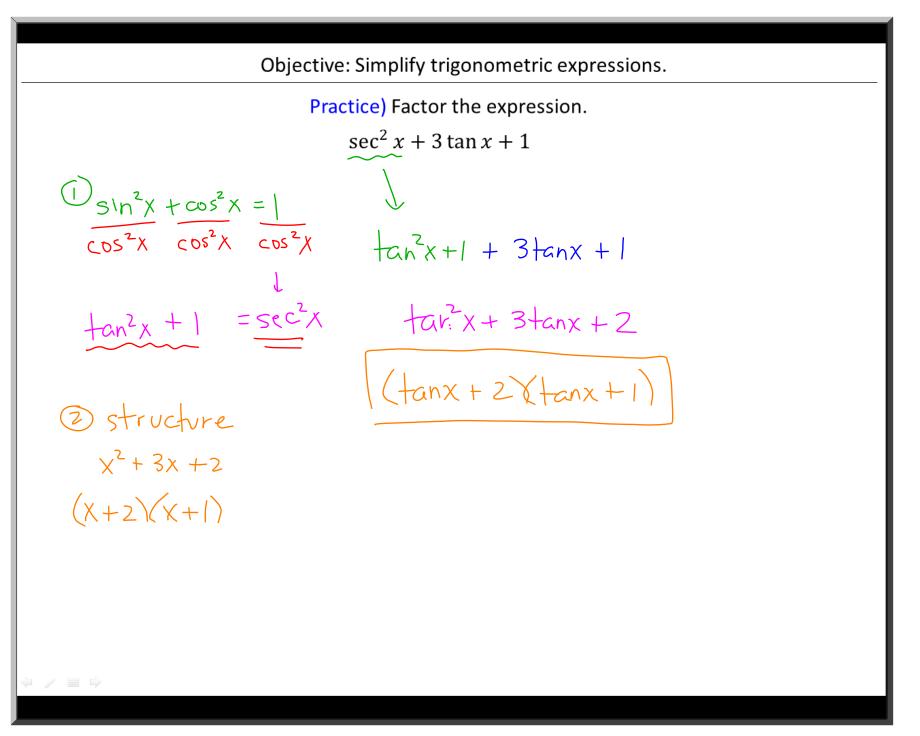
structure $6x^2 - 3x$ 3x(2x - 1)

 $6\sin^2\theta - 3\sin\theta$

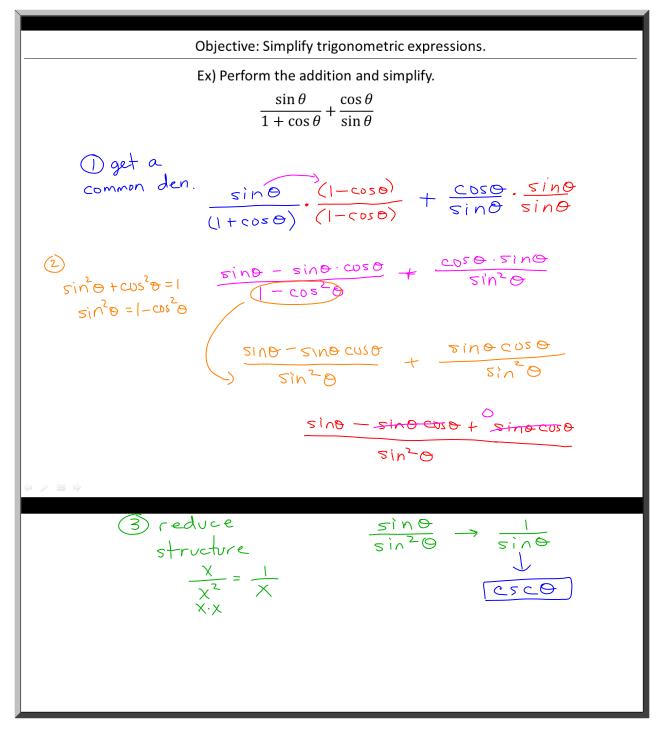


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