

November 21

In a well written paragraph
(7 sentences)

Describe how you can use trig
identities and formulas to transform
one expression into another



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Students will verbally explain how to
use the power reducing formula
(using the words:
substitution, addition, subtraction...)



$$\sin^2 u = \frac{1 - \cos 2u}{2}$$

$$\tan^2 u = \frac{1 - \cos 2u}{1 + \cos 2u}$$

Which expression is equivalent to $\cos^2(3x)$?

☐ $\frac{1 + \cos(2x)}{2}$

☐ $\frac{1 + \cos(3x)}{2}$

☐ $\frac{1 + \cos(6x)}{2}$

☐ $1 + \cos(3x)$

$$\cos^2 u = \frac{1 + \cos 2u}{2}$$

$$u = 3x$$

$$\frac{1 + \cos(2 \cdot 3x)}{2}$$

$$\cos^2 u = \frac{1 + \cos 2u}{2}$$

$$\tan^2 u = \frac{1 - \cos 2u}{1 + \cos 2u}$$

Which expression is equivalent to $\sin^4(x)$?

☐ $\frac{1 - \cos(2x)}{2}$

☐ $\frac{1 - \cos(4x)}{2}$

☐ $\left(\frac{1 - \cos(2x)}{2}\right)^2$

☐ $1 - \cos(2x)$

$$\sin^2 u = \frac{1 - \cos 2u}{2}$$

$$\sin^4 x = (\sin^2 x)(\sin^2 x)$$

$$\left(\frac{1 - \cos 2x}{2}\right)\left(\frac{1 - \cos 2x}{2}\right)$$

pg 227 # 1 - 10 AND

Pick one:

#11 – 31 (odd)

OR

#11 – 44 (every 3rd problem)

pg 247 # 21 - 30

Pg 257 # 19 - 22, 29 - 34,
53 - 56, 61 - 80