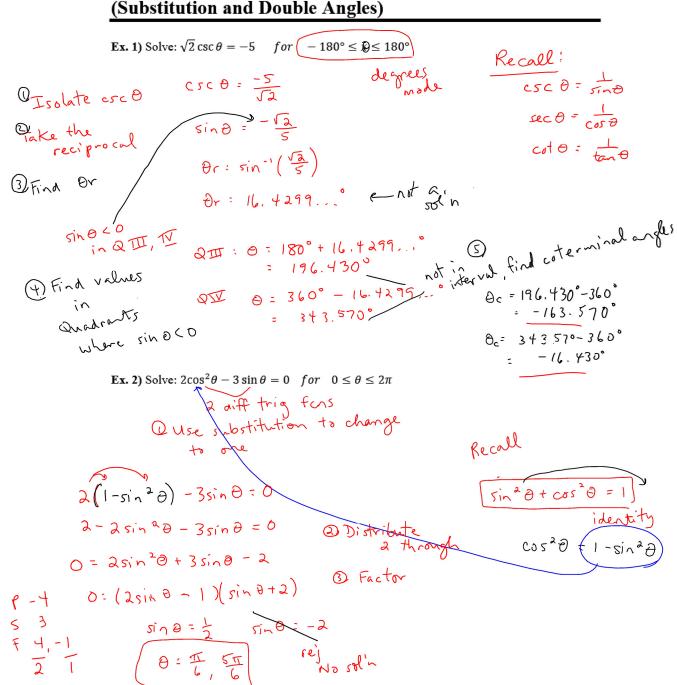
Solving Trig Eqns Algebraically again.notebook

Pre-Calculus 12 Solving Trig Equations Algebraically (Substitution and Double Angles)



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$$\sin^2\theta + \cos^2\theta = 1$$

$$\sin^2\theta = 1 - \cos^2\theta$$

Also on formula shet $\frac{1+\cot^2\theta=\csc^2\theta}{\tan^2\theta+1=\sec^2\theta}$

Double Angles

Ex. 4) Solve
$$cos(2\theta) = 1$$
 for $0 \le \theta \le 2\pi$

$$\frac{1-2\sin^2\theta}{0=2\sin^2\theta}$$

$$0=\sin^2\theta$$

$$0=\sin\theta$$

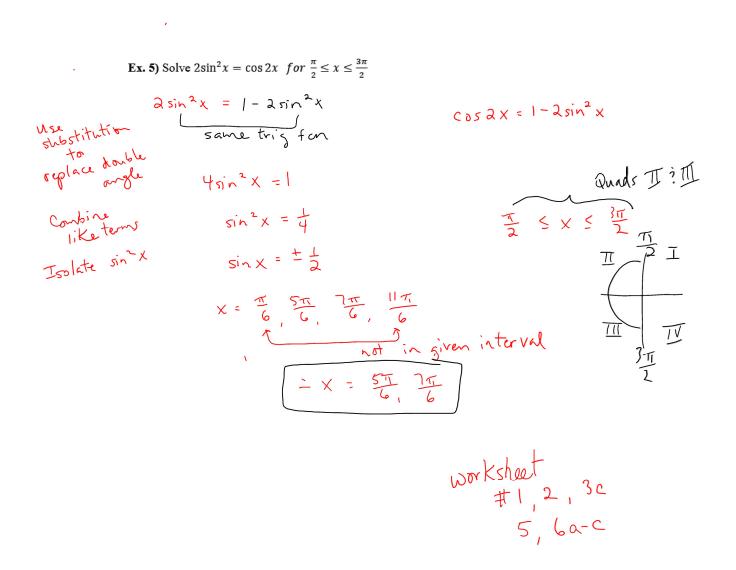
$$0=\sin\theta$$

$$cos 2\theta = cos^{2}\theta - sin^{2}\theta$$

$$cos 2\theta = |-2sin^{2}\theta|$$

$$cos 2\theta = 2cos^{2}\theta - 1$$

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Assignment: Handout "Trig Equations Worksheet" #1a, 2c, 3b,c, 4a, 5a,c,e, 6b