

4.7
1-20, 23-32, 48, 49, 50, 52

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(56) $\cot(\cos^{-1} x)$

$1^2 = x^2 + b^2$
 $\sqrt{1-x^2} = b$

$\frac{x}{\sqrt{1-x^2}}$

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(18) $y = \frac{1}{2} \cot \frac{1}{2} x$

$a = \frac{1}{2}$
 $p = \frac{\pi}{2}, 2\pi$

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(22) $y = \frac{1}{2} \csc \frac{2}{3} x$

$a = \frac{1}{2}$
 $p = \frac{2\pi}{3}, 3\pi$

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(25) $f(x) = -3 \cos(8x)$ $2\pi, \frac{2\pi}{8}$

1. x-axis reflection
2. vertical stretch
3. horizontal shrink

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(15) $\tan \theta = \frac{\sqrt{3}}{3}$ $0 \leq \theta \leq \frac{\pi}{2}$

$\frac{\pi}{6}$ 30° $\frac{y}{x} = \frac{1}{\sqrt{3}}$

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$$\frac{1 \cdot \sqrt{3}}{\sqrt{3} \cdot \sqrt{3}} \quad \frac{\sqrt{3}}{3}$$

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(26) $\tan x$ if $\sec x = 7$ ^{neg.} $\csc x < 0$

CAH
A
H

$\frac{-\sqrt{33}}{4}$

$$7^2 = 4^2 + b^2$$

$$49 - 16 = b^2$$

$$\sqrt{33} = b$$

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(7) $\frac{39.14 \cdot \pi}{180}$

or $\frac{91\pi}{30}$

(9.53)

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$\tan 43 = \frac{x}{1206}$

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