

Advanced Math

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$$2) \sin x = -\frac{1}{2}$$

$$\csc x = -2$$

$$\sec x = -\frac{2}{\sqrt{3}}$$

$$\cot x = \sqrt{3}$$

$$4) \sin \theta = \frac{3}{5}$$

$$\cos \theta = \frac{4}{5}$$

$$\sec \theta = \frac{5}{4}$$

$$\cot \theta = \frac{4}{3}$$

$$6) \cos \phi = -\frac{3}{\sqrt{10}}$$

$$\tan \phi = -\frac{1}{3}$$

$$\csc \phi = \sqrt{10}$$

$$\sec \phi = -\frac{\sqrt{10}}{3}$$

$$8) \sin x = \frac{3}{5}$$

$$\tan x = \frac{3}{4}$$

$$\csc x = \frac{5}{3}$$

$$\sec x = \frac{5}{4}$$

$$\cot x = \frac{4}{3}$$

$$10) \sin x = \frac{1}{5}$$

$$\tan x = \frac{1}{2\sqrt{6}}$$

$$\sec x = \frac{5}{2\sqrt{6}}$$

$$\cot x = 2\sqrt{6}$$

$$\cos x = \frac{2\sqrt{6}}{5}$$

$$12) \sin \theta = \frac{2\sqrt{2}}{3}$$

$$\cos \theta = -\frac{1}{3}$$

$$\tan \theta = -2\sqrt{2}$$

$$\csc \theta = \frac{3}{2\sqrt{2}}$$

$$\cot \theta = -\frac{1}{2\sqrt{2}}$$

$$14) \sin \theta = 1$$

$$\cos \theta = 0$$

$$\csc \theta = 1$$

$$\sec \theta = \infty$$

$$\cot \theta = 0$$

19) d 22) F
20) b 23) e
21) a 24) c

25) b
26) c
27) F
28) a
29) e
30) d

32) $\cos^2 \theta$
34) 1
36) $\cot \theta$
38) $\cos^2 \theta$
40) $\sin^2 \theta$
42) $\sin \theta$
44) $\sec \theta$

46) $\sec^4 x$
48) $\sec x + 1$
50) $\sin^4 x$
52) $\cot^2 x (\csc x - 1)$
54) -1
56) $9 \cos^2 x$

$$58) -2 \cot^2 x$$

$$60) -\cot x$$