

Th 11/13 227 1-4, 7, 9-12, 15



$$\sin \theta = \frac{8\sqrt{2}}{18} = \frac{4\sqrt{2}}{9}$$

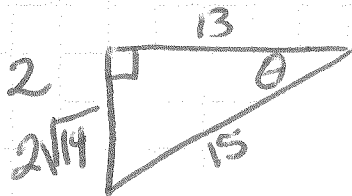
$$\csc \theta = \frac{9\sqrt{2}}{8}$$

$$\cos \theta = \frac{14}{18} = \frac{7}{9}$$

$$\sec \theta = \frac{9}{7}$$

$$\tan \theta = \frac{8\sqrt{2}}{14} = \frac{4\sqrt{2}}{7}$$

$$\cot \theta = \frac{7\sqrt{2}}{8}$$



$$\sin \theta = \frac{2\sqrt{14}}{15}$$

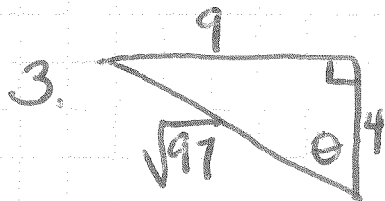
$$\csc \theta = \frac{15\sqrt{14}}{28}$$

$$\cos \theta = \frac{13}{15}$$

$$\sec \theta = \frac{15}{13}$$

$$\tan \theta = \frac{2\sqrt{14}}{13}$$

$$\cot \theta = \frac{13\sqrt{14}}{28}$$



$$\sin \theta = \frac{4}{\sqrt{97}} = \frac{4\sqrt{97}}{97}$$

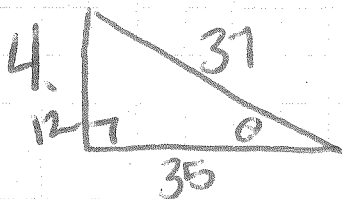
$$\csc \theta = \frac{\sqrt{97}}{4}$$

$$\cos \theta = \frac{9}{\sqrt{97}} = \frac{9\sqrt{97}}{97}$$

$$\sec \theta = \frac{\sqrt{97}}{9}$$

$$\tan \theta = \frac{4}{9}$$

$$\cot \theta = \frac{9}{4}$$



$$\sin \theta = \frac{12}{37}$$

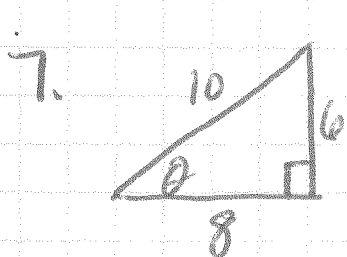
$$\csc \theta = \frac{37}{12}$$

$$\cos \theta = \frac{35}{37}$$

$$\sec \theta = \frac{37}{35}$$

$$\tan \theta = \frac{12}{35}$$

$$\cot \theta = \frac{35}{12}$$



$$\sin \theta = \frac{6}{10} = \frac{3}{5}$$

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

$$\cos \theta = \frac{8}{10} = \frac{4}{5}$$

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

$$\tan \theta = \frac{6}{8} = \frac{3}{4}$$

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

9.  $\sin \theta = \frac{4}{5}$

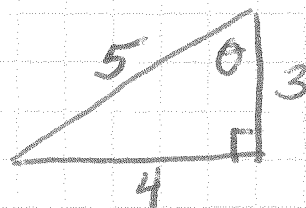
$$\csc \theta = \frac{5}{4}$$

$$\cos \theta = \frac{3}{5}$$

$$\sec \theta = \frac{5}{3}$$

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

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



10.  $\cos \theta = \frac{6}{7}$

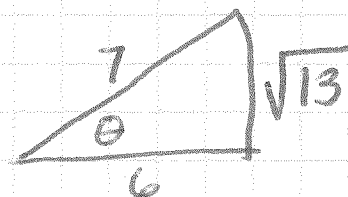
$$\sec \theta = \frac{7}{6}$$

$$\sin \theta = \frac{\sqrt{13}}{7}$$

$$\csc \theta = \frac{7\sqrt{13}}{13}$$

$$\tan \theta = \frac{\sqrt{13}}{6}$$

$$\cot \theta = \frac{6\sqrt{13}}{13}$$



$$49 = 36 + x^2$$

$$13 = x^2$$

$$x = \sqrt{13}$$

11.  $\tan \theta = 3$

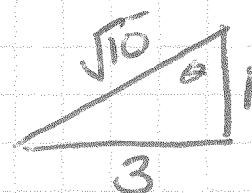
$$\cot \theta = \frac{1}{3}$$

$$\sin \theta = \frac{3\sqrt{10}}{10}$$

$$\csc \theta = \frac{\sqrt{10}}{3}$$

$$\sec \theta = \frac{\sqrt{10}}{10}$$

$$\cot \theta = \sqrt{10}$$



$$x^2 = 9 + 1$$

$$x^2 = 10 \quad x = \sqrt{10}$$

12.  $\sec \theta = 8$

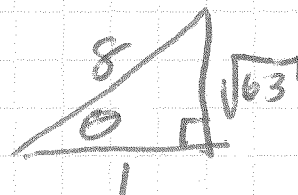
$$\cos \theta = \frac{1}{8}$$

$$\csc \theta = \frac{8\sqrt{63}}{63}$$

$$\sin \theta = \frac{\sqrt{63}}{8}$$

$$\cot \theta = \frac{\sqrt{63}}{63}$$

$$\tan \theta = \sqrt{63}$$



$$64 = 1 + x^2$$

$$63 = x^2$$

$$x = \sqrt{63}$$

$$15. \cot \theta = 5$$

$$\tan \theta = \frac{1}{5}$$

$$\sec \theta = \frac{\sqrt{26}}{5}$$

$$\cos \theta = \frac{5\sqrt{26}}{26}$$

$$\csc \theta = \sqrt{26}$$

$$\sin \theta = \frac{\sqrt{26}}{26}$$

