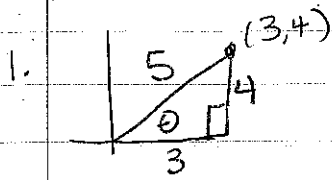


pg. 251 #1-7 odd, 33-40 all



$$S = \frac{4}{5}$$

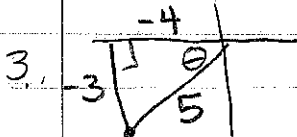
$$\text{Csc} = \frac{5}{4}$$

$$C = \frac{3}{5}$$

$$\text{Sec} = \frac{5}{3}$$

$$T = \frac{4}{3}$$

$$\text{Cot} = \frac{3}{4}$$



$(-4, -3)$

$$S = \frac{-3}{5}$$

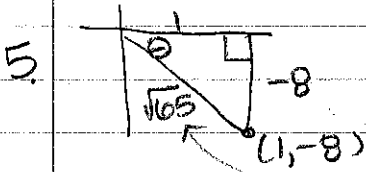
$$\text{Csc} = \frac{-5}{3}$$

$$C = \frac{-4}{5}$$

$$\text{Sec} = \frac{-5}{4}$$

$$T = \frac{-3}{-4} = \frac{3}{4}$$

$$\text{Cot} = \frac{4}{3}$$



$$1^2 + (-8)^2 = c^2$$

$$1 + 64 = c^2$$

$$65 = c^2$$

$$\sqrt{65} = c$$

$$S = \frac{-8}{\sqrt{65}} = \frac{-8\sqrt{65}}{65}$$

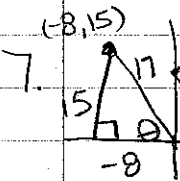
$$\text{Csc} = \frac{-\sqrt{65}}{8}$$

$$C = \frac{1}{\sqrt{65}} = \frac{\sqrt{65}}{65}$$

$$\text{Sec} = \frac{\sqrt{65}}{1}$$

$$T = \frac{-8}{1} = -8$$

$$\text{Cot} = \frac{1}{-8}$$



$$(-8)^2 + 15^2 = c^2$$

$$289 = c^2$$

$$17 = c$$

$$S = \frac{15}{17}$$

$$\text{Csc} = \frac{17}{15}$$

$$C = \frac{-8}{17}$$

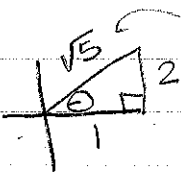
$$\text{Sec} = \frac{-17}{8}$$

$$T = \frac{15}{-8}$$

$$\text{Cot} = \frac{-8}{15}$$

$$\frac{S}{T} \bigg| \frac{A}{C}$$

33.



$$2^2 + 1^2 = c^2$$

$$4 + 1 = c^2$$

$$\sqrt{5} = c$$

$$S = \frac{2}{\sqrt{5}} = \frac{2\sqrt{5}}{5}$$

$$\text{CSC} = \frac{\sqrt{5}}{2}$$

$$C = \frac{1}{\sqrt{5}} = \frac{\sqrt{5}}{5}$$

$$\text{SEC} = \sqrt{5}$$

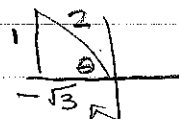
$$T = \frac{1}{2}$$

$$T = \frac{1}{2}$$

34.



$$\text{CSC} = \frac{2}{1} = 2$$



$$1^2 + b^2 = 2^2$$

$$1 + b^2 = 4$$

$$b^2 = 3$$

$$b = \sqrt{3}$$

$$S = \frac{1}{2}$$

$$\text{CSC} = 2$$

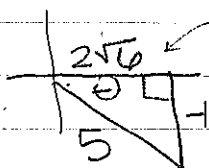
$$C = \frac{-\sqrt{3}}{2}$$

$$\text{SEC} = \frac{2}{-\sqrt{3}} = \frac{-2\sqrt{3}}{3}$$

$$T = \frac{1}{-\sqrt{3}} = \frac{-\sqrt{3}}{3}$$

$$\text{TAN} = -\sqrt{3}$$

35.



$$(-1)^2 + b^2 = 5^2$$

$$1 + b^2 = 25$$

$$b^2 = 24$$

$$b = 2\sqrt{6}$$

$$S = \frac{-1}{5}$$

$$\text{CSC} = -5$$

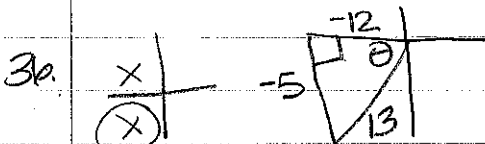
$$C = \frac{2\sqrt{6}}{5}$$

$$\text{SEC} = \frac{5}{2\sqrt{6}} = \frac{5\sqrt{6}}{12}$$

$$T = \frac{-1}{2\sqrt{6}} = \frac{-\sqrt{6}}{12}$$

$$\text{COT} = -2\sqrt{6}$$

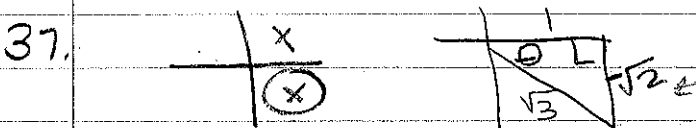
$$\frac{S}{T} \mid \frac{A}{C}$$



$$S = \frac{-5}{13} \quad \text{Csc} = \frac{-13}{5}$$

$$C = \frac{-12}{13} \quad \text{Sec} = \frac{-13}{12}$$

$$T = \frac{-5}{-12} = \frac{5}{12} \quad \text{Cot} = \frac{12}{5}$$

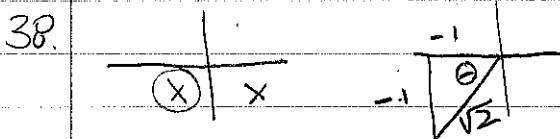


$$\begin{aligned} \sec &= \frac{\sqrt{3}}{1} \quad h & |^2 + b^2 &= \sqrt{3}^2 \\ & & | & a & | + b^2 &= 3 \\ & & & & b^2 &= 2 \\ & & & & b &= \sqrt{2} \end{aligned}$$

$$S = \frac{-\sqrt{2}}{\sqrt{3}} = \frac{-\sqrt{6}}{3} \quad \text{Csc} = \frac{3}{-\sqrt{6}} = \frac{-3\sqrt{6}}{6} = \frac{-\sqrt{6}}{2}$$

$$C = \frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3} \quad \text{Sec} = \sqrt{3}$$

$$T = \frac{-\sqrt{2}}{1} = -\sqrt{2} \quad \text{Cot} = \frac{1}{-\sqrt{2}} = \frac{-\sqrt{2}}{2}$$



$$\begin{aligned} (-1)^2 + (-1)^2 &= c^2 \\ 1 + 1 &= c^2 \\ 2 &= c^2 \\ \sqrt{2} &= c \end{aligned}$$

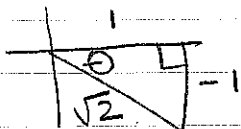
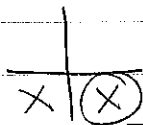
$$S = \frac{-1}{\sqrt{2}} = \frac{-\sqrt{2}}{2} \quad \text{Csc} = -\sqrt{2}$$

$$C = \frac{-1}{\sqrt{2}} = \frac{-\sqrt{2}}{2} \quad \text{Sec} = -\sqrt{2}$$

$$T = \frac{-1}{-1} = 1 \quad \text{Cot} = 1$$

$$\frac{S}{T} \mid \frac{A}{C}$$

39.



$$S = \frac{-1}{\sqrt{2}} = \boxed{\frac{-\sqrt{2}}{2}}$$

$$\text{CSC} = \boxed{-\sqrt{2}}$$

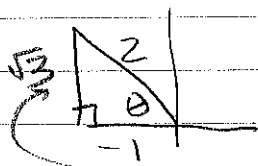
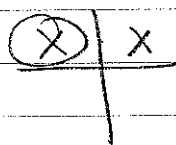
$$C = \frac{1}{\sqrt{2}} = \boxed{\frac{\sqrt{2}}{2}}$$

$$\text{Sec} = \boxed{\sqrt{2}}$$

$$T = \frac{-1}{-1} = \boxed{-1}$$

$$\text{cot} = \boxed{-1}$$

40.



$$(-1)^2 + b^2 = 2^2$$

$$1 + b^2 = 4$$

$$b^2 = 3$$

$$b = \sqrt{3}$$

$$S = \boxed{\frac{\sqrt{3}}{2}}$$

$$\text{CSC} = \frac{2}{\sqrt{3}} = \boxed{\frac{2\sqrt{3}}{3}}$$

$$C = \boxed{\frac{-1}{2}}$$

$$\text{Sec} = \boxed{-2}$$

$$T = \frac{\sqrt{3}}{-1} = \boxed{-\sqrt{3}}$$

$$\text{cot} = \frac{-1}{\sqrt{3}} = \boxed{\frac{-\sqrt{3}}{3}}$$