Worksheet – Six Trigonometric Ratios

- 1. For each of the following questions, state the exact values of the six trig ratios.
 - a) $P(\sqrt{3}, -1)$
 - b) $P(-2, \sqrt{5})$
- 2. For each of the following questions, state the other five trig ratios.
 - a) $\cos\theta = -\frac{1}{3}$ and $\sin\theta > 0$
 - b) $\cot \theta = \frac{2}{5}$ and $\csc \theta < 0$
 - c) $\csc \theta = -\frac{5}{4}$ and $\cot \theta > 0$

Answers

$$Sec \Theta = 2\frac{\sqrt{3}}{3}$$

$$tan0 = -\frac{\sqrt{3}}{3}$$

b) 5, 5 8 =
$$\frac{3}{\sqrt{5}}$$

2. a) The terminal arm is in Quadrant 2.

$$51.0 = 2\sqrt{2}$$

b) The terminal arm is in Quadrant 3.

c) The terminal arm is in Quadrant 2.