Identify the quadrant (Or possible quadrants) of an angle  $\theta$  that satisfies the given conditions.

$$\sin \emptyset > 0$$
, asc

Use identities to solve each of the following. Rationalize denominators when applicable.

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$$\sqrt{1} \times \frac{1}{2} + 3 \times \frac{1}{2} = \frac{1}{2} \times \frac{1}{2} = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{2} \times \frac{1$$

Give all six trigonometric function values for each angle  $\theta$ . Rationalize denominators when possible.

$$\sin \theta = \frac{8}{7} = \frac{3}{5}$$

$$\cos \theta = \frac{2}{7} = \frac{3}{5}$$

$$\sqrt{-3} + \sqrt{3} = 5$$

$$\sqrt{9 + 3} = 5$$

$$\tan \theta = \frac{y}{\sqrt{34}} = \frac{72}{\sqrt{34}}$$

## 1x2.+.1.2

$$csc^{2}\beta - cot^{2}\beta = 1$$

$$1 = (sc^{2}\beta - cot^{2}\beta)$$

$$1 = (sc^{2}\beta - cot^{2}\beta)$$

Suppose that 
$$90^{\circ} < \theta < 180^{\circ}$$
. Find the sign of each function value.

## Suppose that $-90^{\circ} < \theta < 90^{\circ}$ . Find the sign of each function value

