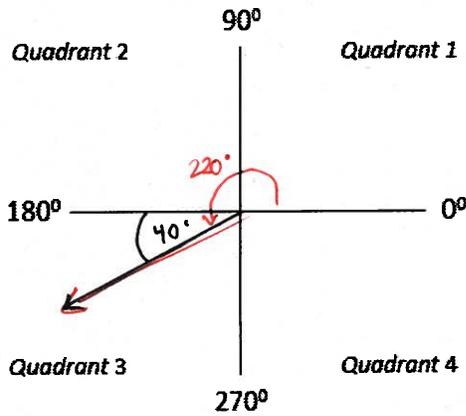


L49 - EQ - 2.1 Angles in Standard Position

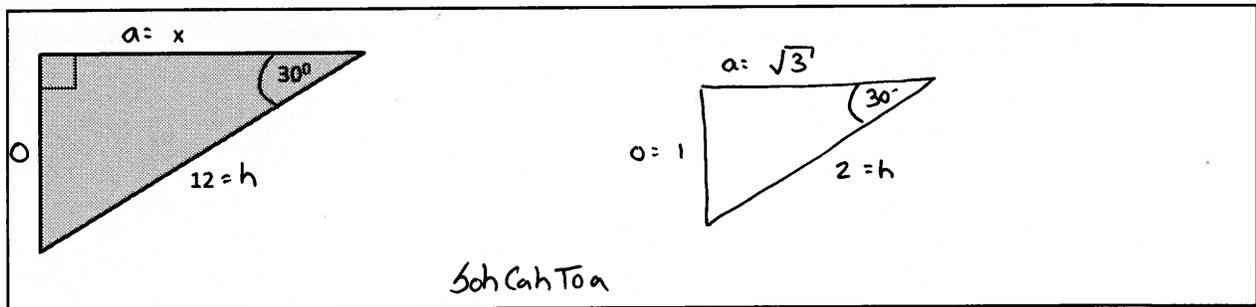
Q1: (a) Draw an angle of  $220^\circ$ . (1 mark)



(b) Which quadrant is the terminal arm located in? (1 mark) Quadrant 3

(c) What is the reference angle? (1 mark)  $40^\circ$

Use the following information to answer Q2:



Q2: Determine the exact value of x. (3 marks)

$$\cos \theta = \frac{a}{h}$$

$$\cos 30^\circ = \frac{x}{12} \quad \textcircled{1}$$

$$\frac{\sqrt{3}}{2} = \frac{x}{12} \quad \textcircled{1}$$

$$\frac{12\sqrt{3}}{2} = x$$

$$\boxed{6\sqrt{3}} = x \quad \textcircled{1}$$

**MARKING:**

Beginning	0.0 – 2.5
Progressing	3.0 – 4.0
Competent	4.5 – 5.5
Exemplary	6.0