Mrs. Behnke

PART B: You **may use a calculator** for part B.

1. For ΔPQR, p=5, q=8 and $\angle P = 10°$, determine the value of $\angle Q$.

2. For ΔKMN, k=10, m=9 and n=12, determine the value of $\angle N$.

MCR 3UI Day 2   /15   **Trigonometry Quiz**   Name: _____

Mrs. Behnke   **PART A:** **No Calculator** allowed for this part of the quiz.

When you finish part A, hand it in and get part B.

1.   Complete each of the following tables. **(2 marks)**

Related Acute Angle, β	Quadrant	Sketch	Principal Angle, θ		Related Acute Angle, β	Quadrant	Sketch	Principal Angle θ
40°	2							230°

2.   The point (4, -4) is on the terminal arm of an angle θ in standard position.
     a) Draw the triangle. **(1 mark)**
     b) Find the <u>exact values</u> for sin θ and cos θ and tan θ. **(4 marks)**
     c) Calculate the related acute angle, β, and the principal angle, θ. **(2 marks)**

3.   Given $sinA = \frac{-\sqrt{3}}{2}$. Find all values of $\angle A$, to the nearest degree if $0° \leq A \leq 360°$. Draw a diagram
     to support your answer. **(3 marks)**

4.   Determine the exact value of the trig ratio $cos225°$. Draw a diagram to support your answer.
                                                                (2 marks)