Angles in Standard Position Quiz /20

1. For each of the following angles: draw in standard position, state 1 positive and 1 negative co-terminal angle, and state the reference angle. (8 marks)

a) 50⁰ b) 257⁰

2. The point P (-12, 5) is on the terminal arm of an angle θ in standard position. Sketch the angle. Determine the ratios for sine, cosine, and tangent and the smallest, positive value of θ to the nearest tenth of a degree. (5 marks)

3. A point P on the terminal arm of angle θ is shown. Determine the three trigonometric ratios and the smallest, positive value of θ to the nearest degree. (4 marks)

x

y

(-4, -3)

P

4. $cosβ=\frac{3}{\sqrt{13}}$ and β is in quadrant IV. Find the other 2 trigonometric ratios and the smallest, positive value of β to the nearest tenth of a degree. (3 marks)