

3 Trig ratios and the unit circle – Part 1

—Answers

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Work through these after you have tried the questions yourself.

2.1 its output pattern repeats at regular, equal steps of the input.

2.2 $\sin = \frac{\text{opp}}{\text{hyp}}$, $\cos = \frac{\text{adj}}{\text{hyp}}$, $\tan = \frac{\text{opp}}{\text{adj}}$.

2.3 $\sin \theta = \frac{4}{5} = 0.8$.

2.4 $\cos \theta = \frac{3}{5} = 0.6$; $\tan \theta = \frac{4}{3} \approx 1.33$.

2.5 the largest is 1 and the smallest is -1 .