1. Fill in the entire Unit Circle with degrees, radians, and coordinates. (50 points)

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Given that $cosθ=-\frac{2}{5} and that\frac{π}{2}<θ<π , find sinθ and tanθ.$

Given that $cosθ=\frac{2}{10} and that π<θ<2π , find sinθ and tanθ.$

1. Convert each of the following from radians to degrees: (1 point each)

$\frac{π}{36}$ $\frac{2π}{15}$ $\frac{7π}{3}$ $-\frac{2π}{3}$

2. Convert each of the following to radians: (1 point each)

315° 200° 30° -150°

3. Determine two co terminal angles for each of the following: (2 points each)

$370°$ $-520°$

4. Find the reference angle. (1 point each)

 $100°$ $π/3$ $-95°$

5. Fill in the table below: (½ point each)

|  |  |  |  |
| --- | --- | --- | --- |
| Degrees | Sine | Cosine | Tangent |
| 0o |  |  |  |
| 30° |  |  |  |
| 150° |  |  |  |
| 270° |  |  |  |
| 330° |  |  |  |