Problem 1. Find the radian measure of $184°$.

Problem 2. Find the degree measure of $\dfrac{22\pi}{15}$.

Problem 3. If $\tan\theta = \sqrt{3}$ and $0 \leq \theta \leq \dfrac{\pi}{2}$, what is θ (in radians)?

Problem 4. If $\tan\theta = \dfrac{7}{11}$, what is $\sin\theta$?

Problem 5. A baby groundhog bravely leaves her hole, cautiously crawls west for 4 meters, then sees an owl, becomes terrified and in a blind panic, runs south for 9 meters. How far is she from her hole?

Problem 6. Find the reference number (in degrees) of $x = -1234°$.

Problem 7. Find the reference number (in radians) of $t = \dfrac{41\pi}{3}$.

Problem 8. Find the terminal point $W(t)$ determined by $t = \dfrac{11\pi}{3}$.

Problem 9. Find $W\left(-\dfrac{41\pi}{6}\right)$.

Problem 10. Jane and Michael are flying a kite. The string is 300 feet long, and the angle the string makes with the ground is $36°$. How high is the kite?