Quiz for 9/3: Angles

You have 15 minutes. Please show all your work; if I can't follow your logic, I can't give you partial credit.

Please put anything with a screen (except calculators) out of sight and leave them that way until you have left the classroom.

1. Determine whether a triangle with side lengths 7, 24, 25 is right.

2. Add the angles $40°30'20"$ and $50°40'12"$ and express your answer in degrees, minutes, and seconds.

3. Convert the angle $135°$ to radians. Express your answer as a fraction of π.

4. Convert the angle $11\pi/6$ to degrees.

5. Two complementary angles measure x^2 and $x^2 - 8$ degrees. Find x, assuming it is a positive number.