|  |
| --- |
| **Write each measure in radians. Express your answer in terms of π.**1. 78◦ 2. 55◦  |
| **Write each measure in degrees.**3. 4. |
| **(a) Calculate a coterminal angle satisfying.(b) Sketch the coterminal angle in *standard position*.(c) Calculate the reference angle of the coterminal angle.**5) 6) 7) 8)  |
| **(a) Sketch each angle in standard position.****(b) Determine the reference angle.****(c) Sketch the reference triangle and correctly label each side.****(d) Find the *exact* value for the sine, cosine, and tangent of the original angle.**9) 10) 11) 12) 13) 14)  |
| **Given one trig ratio find the remaining trig ratios.\*\*\*HINT – Determine the quadrant, sketch the triangle/label the given sides, find the third side using the Pythagorean theorem, find the other 2 trig ratios.**15) 16) 17) 18) tan = -1 and sin is 19) sin = and tan is 20) cos = and tan is positive |
| **Solve for all possible of , where .**21) 22) 23) 24) 25) 26) 27) 28) 29)  |