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| --- |
| **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) |