**HM3 – TRIG VALUES IN THE COORDINATE PLANE CONTINUED**  NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*The following points are on the terminal side of an angle in standard position. Determine the exact values of the six trig functions of the angle.*

1. (8, - 15)

*State the quadrant in which θ must lie:*

2. sin *θ < 0 and cos θ < 0 3. sin θ > 0 and cos θ > 0 4. sin θ > 0 and tan θ > 0*

*5. sec θ > 0 and csc θ > 0 6. sin θ < 0 and sec θ > 0*

*Find the values for the six trigonometric functions of θ for the functional value and given constraint:*

*7. tan θ = , sin θ < 0 8. Cos θ = , tan θ <0 9. cot θ = - 3, cos θ > 0*

*10.*

*Solve the following equations for*

*11. 12. 13.*

*14. 15. 16.*

*17. 18. 19.*

*20.*