Parametric Equations Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sketch the curve represented by the parametric equations. Eliminate the parameter and write the corresponding rectangular equation. State the domain and range of the curve.

1. $x=1+t y=t$
2. $x=2t-3 y=9-4t$
3. $x=4\sin(t y=4\cos(t))$
4. $x=t+2 y=\frac{2}{t}$
5. $x=4t-2 y=8t^{2}$
6. $x=t-3 y=\sqrt{t-2}$
7. $x=4\cos(t y=8\sin(t))$
8. $x=5-3t y=2+t$
9. $x=3t-1 y=t^{2}+2$
10. $x=\left|t\right| y=t$
11. $x=\sqrt{t} y=\sqrt{t}$
12. $x=\sqrt{t} y=1-t$
13. $x=\sqrt[3]{t} y=1-t$
14. $x=t+1 y=t^{2}$
15. $x=t+1 y=t^{3}$
16. $x=\sqrt{1-t} y=\sqrt{t}$
17. $x=\sqrt{1-t^{2}} y=t$
18. $x=\cos(t) y=3\sin(t)$
19. $x=-\sqrt{1-t} y=-\sqrt{t}$
20. $x=2+\sin(t y=3+\cos(t))$
21. $x=e^{t} y=e^{2t}$