Solve each system by graphing.

1. $\left\{\begin{array}{c}y=-\frac{5}{3} x+3 \\ y=\frac{1}{3} x-3\end{array}\right.$
2. $\left\{\begin{array}{l}y=4 x+3 \\ y=-x-2\end{array}\right.$
3. $\left\{\begin{array}{c}y=-\frac{5}{3} x+3 \\ y=\frac{1}{3} x-3\end{array}\right.$



4. $\left\{\begin{array}{c}y=-1 \\ y=-\frac{5}{2} x+4\end{array}\right.$
5. $\left\{\begin{array}{c}y=-\frac{1}{2} x-1 \\ y=\frac{1}{4} x-4\end{array}\right.$
6. $\left\{\begin{array}{l}y=-2 x+2 \\ y=-2 x-2\end{array}\right.$



7. $\left\{\begin{array}{c}y-\frac{1}{2} x-2 \\ y=-\frac{3}{2} x+2\end{array}\right.$
8. $\left\{\begin{array}{l}y=\frac{1}{3} x-3 \\ y=-x+1\end{array}\right.$
9. $\left\{\begin{array}{l}y=x+3 \\ y=x+3\end{array}\right.$



10. Name the three type of solutions that a system of linear equations may have and why each will occur?

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11. $\left\{\begin{array}{c}5 x+y=4 \\ x-y=2\end{array}\right.$
12. $\left\{\begin{array}{l}x-4 y=-4 \\ 5 x-4 y=12\end{array}\right.$
13. $\left\{\begin{array}{c}x+y=3 \\ 8 x+y=-4\end{array}\right.$



14. $\left\{\begin{array}{c}x-y=2 \\ x=-2\end{array}\right.$
15. $\left\{\begin{array}{c}2 x+y=1 \\ -2 x-y=3\end{array}\right.$
16. $\left\{\begin{array}{c}x-3 y=-6 \\ 2 x-y=3\end{array}\right.$




For each type of solution that a system of equation may have, create an example of a system and provide the corresponding graphical representation.
17.

18.

19.





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