**Determine whether** $\overleftrightarrow{AB}$ **and** $\overleftrightarrow{DF}$ **are parallel, perpendicular, or intersecting. Explain.**

14. A(-2, -11) B(6,5) D(-7,-10) F(2,8) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

15. A(-1,6) B(2,-9) D(-10,-1) F(5,2) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

16. Write the equation of the line in slope intercept form that passes through point (-2,1) and is perpendicular to $y=\frac{1}{3}x+5.$

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17. Write an equation of a line in slope-intercept form through (2,4) and parallel to $x-3y=6.$

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19.

21.

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18.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

19.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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