

Jefferson Township Public Schools

Summer Assignment for students entering Algebra 2 Honors

This assignment will count as a formative assessment and

is due on the second class meeting of the school year.

Algebra 2 Honors Summer Assignment

Simplify.

1) $(-2) - \left(-\frac{1}{7}\right)$

2) $\frac{1}{7} \cdot -\frac{3}{5}$

3) $\frac{-13}{9} \div \frac{4}{3}$

4) $\sqrt{75}$

5) $\sqrt{128}$

6) $\sqrt{98}$

Factor the common factor out of each expression.

7) $5v^3 + 30v^2 - 15v$

8) $30m^7 + 24m^8 + 21m^{10}$

9) $42k^8 - 30k^9 + 6k^{10}$

Solve.

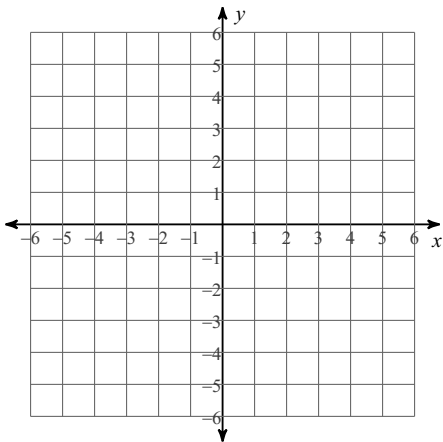
10) $-4(2a - 6) - 2 = 3(5 - 5a)$

11) $1 - 7(-3x - 1) = 7(x - 6) + 4x$

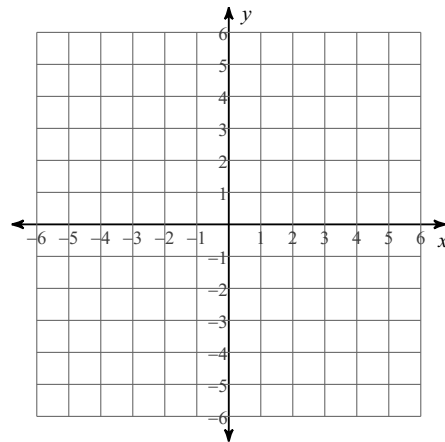
12) $\frac{2}{3} = \frac{p - 10}{6}$

Sketch the graph of each line.

13) $6x - y = 2$



14) $x - 2y = -2$



15) $3x - 5y = 15$

