## Unit 2 Lesson 14: Making More New, True Equations

### 1 Criss Cross'll Make You Jump (Warm up)

#### Student Task Statement

Match each equation with its graph.

|  |  |  |
| --- | --- | --- |
| $x=7$ | $y=7$ | $x+y=7$ |

A



B



C



D



### 2 They're Like Terms, Man

#### Student Task Statement

Rewrite each expression by combining like terms.

1. $11s−2s$
2. $5t+3z−2t$
3. $23s−\left(13t+7t\right)$
4. $7t+18r+\left(2r−5t\right)$
5. $-4x+6r−\left(7x+2r\right)$
6. $3\left(c−5\right)+2c$
7. $8x−3y+\left(3y−5x\right)$
8. $5x+4y−\left(5x+7y\right)$
9. $9x−2y−3\left(3x+y\right)$
10. $6x+12y+2\left(3x−6y\right)$

### 3 Finding More Lines

#### Student Task Statement

For each system of equations:

* Solve the system of equations by graphing. Write the solution as an ordered pair.
* Write an equation that would represented by a vertical or horizontal line that also passes through the solution of the system of equations.
* Graph your new equation along with the system.
1. $\left\{\begin{matrix}\begin{matrix}y=3x+5\\y=-x+1\end{matrix}\end{matrix}\right.$
* The line representing $y=3x+5$ is shown
* 
1. $\left\{\begin{matrix}\begin{matrix}y=\frac{1}{3}x−2\\y=x−6\end{matrix}\end{matrix}\right.$
* The line representing $y=\frac{1}{3}x−2$ is shown
* 
1. $\left\{\begin{matrix}\begin{matrix}2x+3y=10\\x+y=3\end{matrix}\end{matrix}\right.$
* The line representing $2x+3y=10$ is shown
* 



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