

READY, SET, GO!

Name

Period

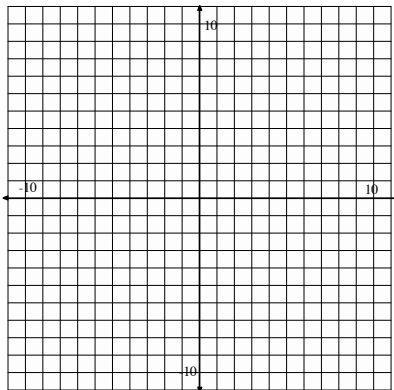
Date

**READY**

Topic: Solutions to an equation.

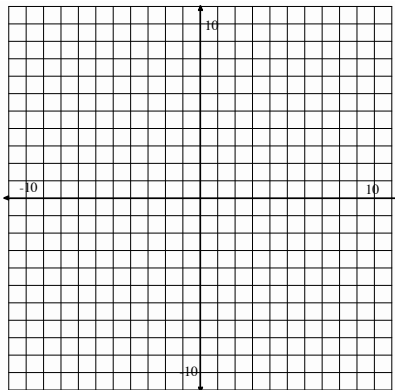
**Graph the following equations on the coordinate grid. Determine if the given point is a solution to the equation?**

1.  $y = 5x - 2$



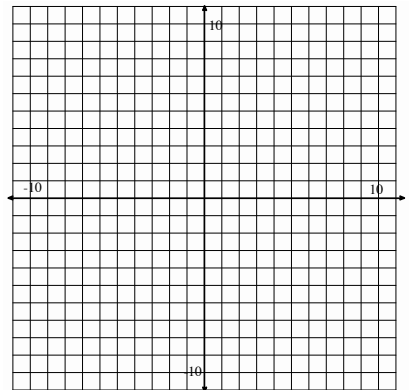
Point: (1, 3) Yes? / No?

2.  $y = -\frac{1}{2}x + 8$



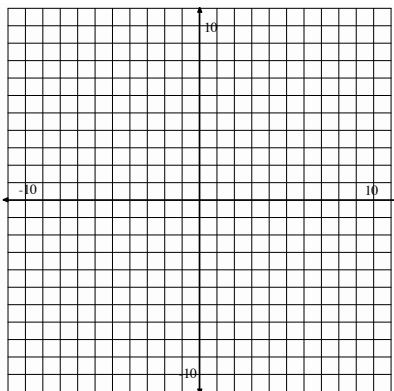
Point: (0, 7) Yes? / No?

3.  $y = -x + 4$



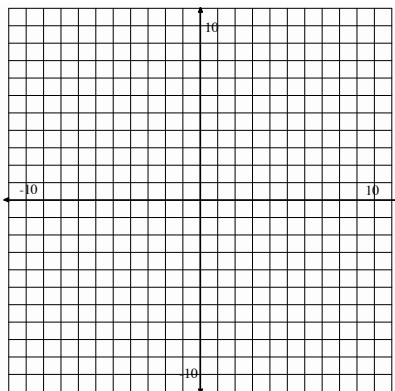
Point: (2, 2) Yes? / No?

4.  $y = x + 2$



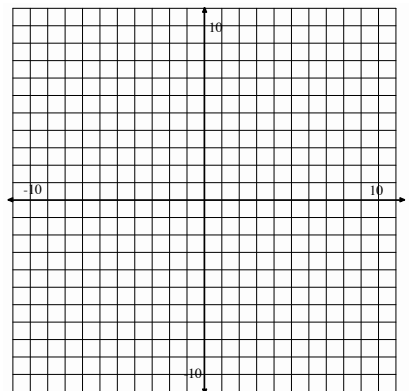
Point: (1, 3) Yes? / No?

5.  $y = \frac{5}{2}x - 7$



Point: (2, -2) Yes? / No?

6.  $y = -\frac{4}{3}x$



Point: (2, -3) Yes? / No?

**SET**

Topic: Solve linear equations using parentheses.

**Determine if the two expressions listed are equivalent. Explain your reasoning.**

7. $14 - (3a + 2)$	$14 - 3a - 2$	8. $4b - 10$	$2(2b - 5)$
9. $\frac{(x-7)}{4}$	$\frac{x}{4} - \frac{7}{4}$	10. $\frac{3(w-9)}{5}$	$\frac{3w}{5} - 27$

11. Without solving, determine if the two equations below have the same solution.  
Explain why or why not?

$$3(x - 5) = 35 \text{ and } 3x - 5 = 35.$$

**12. Circle the expressions that are equivalent.**

$\frac{4t - 10}{2}$	$\frac{4t}{2} - 10$	$2t - 10$	$4t - 5$
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**Solve for x.**

13.  $\frac{4(x-2)}{5} = 20$

14.  $4\left(\frac{x}{5} - 2\right) = 20$

15.  $\frac{4x-2}{5} = 20$

**GO**

**Topic: Determine if a number is a solution to an equation.**

**Indicate whether the given value is a solution to the corresponding equation.**

**Show your work.**

16.  $a = -3$ ;  $4a + 3 = -9$

17.  $x = \frac{4}{3}$ ;

$\frac{3}{4}x + \frac{1}{2} = \frac{3}{2}$

Yes?/No?

Yes?/No?

18.  $y = 2$ ;  $2.5y - 10 = -0.5$

19.  $z = -5$ ;

$2(5 - 2z) = 20 - 2(z - 1)$

Yes?/No?

Yes?/No?

20.  $w = \frac{1}{4}$ ;  $4w = w + \frac{3}{4}$

21.  $b = 5$ ;

$6x - 2 = 4(x + 2)$

Yes?/No?

Yes?/No?