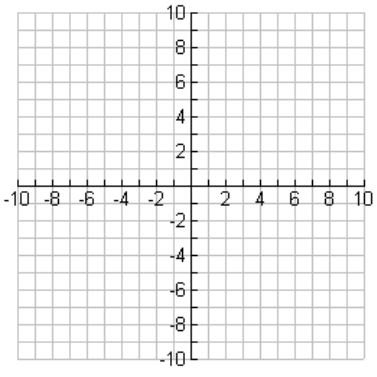
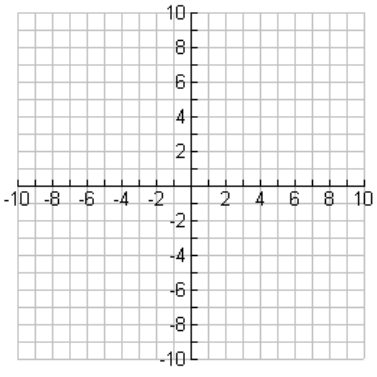
Name: Period: Getting Ready 4.5

Graph the following equations using the coordinate graph, and then determine if the given point is a solution to the equation.

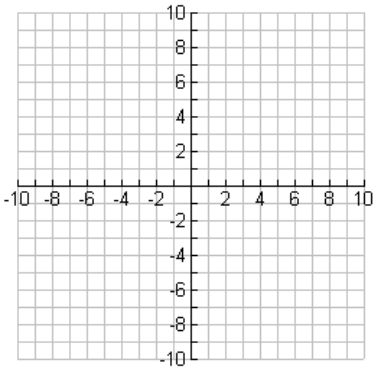
1. $y = 5x + 2$ pt: (1, 7)



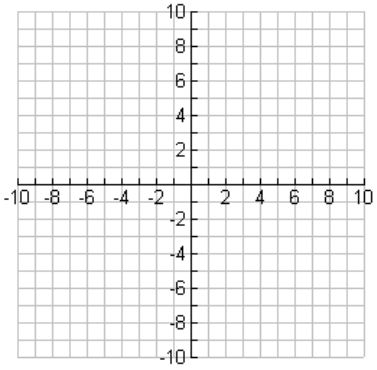
2. $y = \frac{1}{3}x + 8$ pt: (0,3)



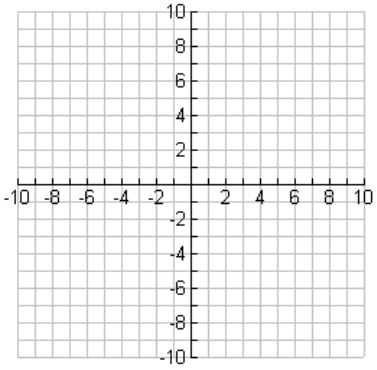
3. $y = x - 2$ pt: (2, 0)



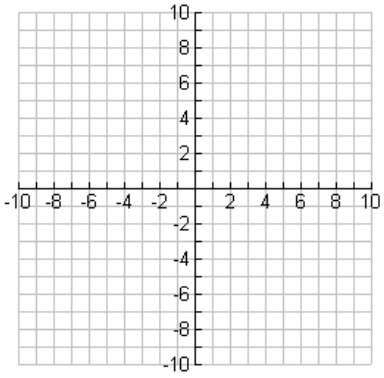
4. $y = x + 4$ pt: (-3,1)



5. $y = \frac{5}{3}x + 3$ pt: (2, -1)



6. $y = \frac{-4}{3}x$ pt: (4, -12)



Check whether the given number is a solution to the corresponding equation.

7. $a = 2; 3a + 5 = 11$

8. $x = \frac{4}{5}; \frac{5}{4}x + \frac{1}{2} = \frac{3}{2}$

9. $y = 4; 2.5y - 5.0 = 10.0$

10. $z = -3; 2(5 - 2z) = 20 - 2(z + 1)$

Evaluate or solve. Show your work.

11. Evaluate $\frac{2x+5}{3}$ when x = 2

12. Solve $\frac{2x+5}{3} = 3$

13. Evaluate $4x + 3$ when x = 9

14. Solve $4x + 3 = 39$

15. Evaluate $\frac{3x}{4}$ +2 when x = 4

16. Solve $\frac{3x}{4}$ +2 = 5

17. Evaluate $\frac{3x-8}{2}$ when x = 6

18. Solve $\frac{3x-8}{2} = 5$

19. Evaluate $\frac{8(x-2)}{3}$ when x = 11

20. Solve $\frac{8(x-2)}{3} = 24$