Trig Review Ch. 3

MCT. 3.1-3.4 is Thurs.

Quiz 3.3-3.4

3.3

Graph each inequality.

23. $y > |x + 2|$

25. $y < (x + 1)^2 + 2$

3.3

Solve each inequality.

27. $|4x + 5| > 7$

3.4

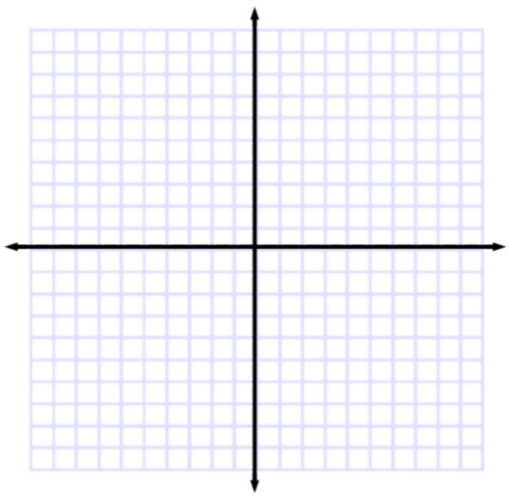
Graph each function and its inverse.

29. $f(x) = 3x - 1$

30. $f(x) = -\frac{1}{4}x + 5$

31. $f(x) = \frac{2}{x} + 3$

32. $f(x) = (x + 1)^2 - 4$



3.4

Find $f^{-1}(x)$. Then state whether $f^{-1}(x)$ is a function.

33. $f(x) = (x - 2)^3 - 8$

3.1

Determine whether the graph of each function is symmetric with respect to the *x*-axis, *y*-axis, the line $y = x$, the line $y = -x$, or none of these.

15. $xy = 4$

16. $x + y^2 = 4$

17. $x = -2y$

18. $x^2 = \frac{1}{y}$

3.2

Describe how the graphs of $f(x)$ and $g(x)$ are related.

19. $f(x) = x^4$ and $g(x) = x^4 + 5$

20. $f(x) = |x|$ and $g(x) = |x + 2|$