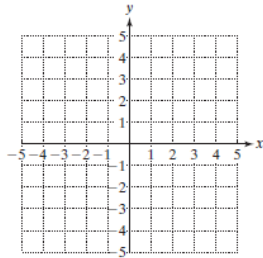# Non-Linear Inequalities in Two Variables
... No Answers
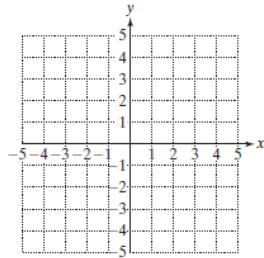
Section 11.5

For Exercises 54−61, graph the solution set to the inequality.
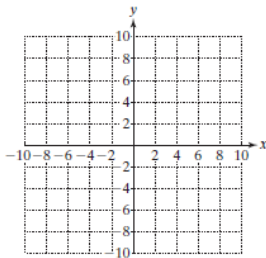
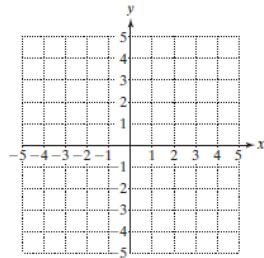**54.** $3x + y \leq 4$

55. $x - 2y \geq -2$

56. $\dfrac{x^2}{16} + \dfrac{y^2}{81} < 1$
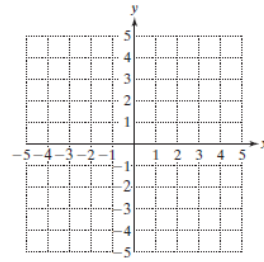
57. $\dfrac{x^2}{25} + \dfrac{y^2}{4} > 1$
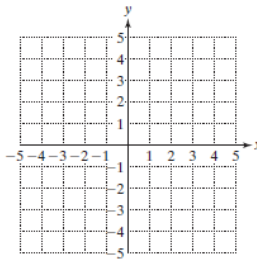
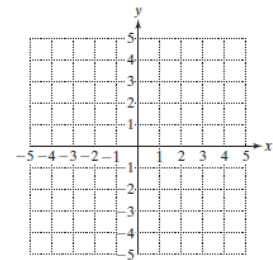**58.** $(x - 3)^2 + (y + 1)^2 \geq 9$
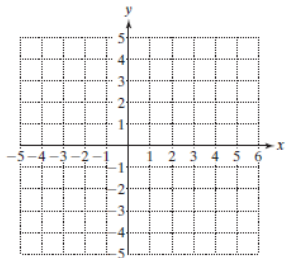
59. $(x + 2)^2 + (y + 1)^2 \leq 4$
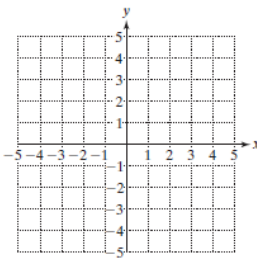
60. $y > (x - 1)^2$
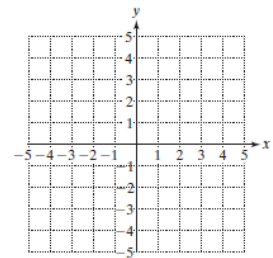
61. $y > x^2 - 1$

For Exercises 62−64, graph the solution set to the system of nonlinear inequalities.

62. $y > 2^x$

$x^2 + y^2 < 4$

63. $y < 2^x$

$x^2 + y^2 < 9$

64. $\dfrac{x^2}{4} - y^2 < 1$

$x^2 + y^2 < 9$