

Download File PDF Prentice Hall Geometry Extra Practice Chapter 12 Answers

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Name _____ Class _____ Date _____

Extra Practice (continued)

Chapter 4

Evaluate the discriminant of each equation. Tell how many real solutions each equation has.

55. $x^2 + 4x = 17$ 80; 2 56. $2x^2 + x = -1$ -7; 0 57. $x^2 - 4x + 5 = 0$ -4; 0
 58. $2x^2 + 5x = 0$ 25; 2 59. $x^2 - 19 = 1$ 80; 2 60. $3x^2 = 8x - 4$ 16; 2
 61. $-2x^2 + 1 = 7x$ 57; 2 62. $4x^2 + 4x = -1$ 0; 1 63. $x^2 + 16 = 0$ -64; 0

64. The height y of a parabolic arch is given by $y = -\frac{1}{20}x^2 + 40$, where x is the horizontal distance from the center of the base of the arch. All distances are in feet.

- a. What is the highest point on the arch? 40 ft.
 b. How wide is the arch at the base to the nearest tenth of a foot? 55.6 ft.
 65. An archer's arrow follows a parabolic path. The path of the arrow can be described by the equation $y = -0.002x^2 + 2x + 5$.
 a. Describe the meaning of the y -intercept of the graph of the equation. The archer releases the arrow 5 ft above the ground.
 b. What is the horizontal distance the arrow travels before it hits the ground? Round your answer to the nearest foot. 432 ft.

Lesson 4-8

Simplify each number by using the imaginary number i .

66. $\sqrt{-9} = \pm 3i$ 67. $\sqrt{-36} = \pm 6i$ 68. $\sqrt{-81} = \pm 9i\sqrt{1}$
 69. $\sqrt{-25} = \pm 5i$ 70. $\sqrt{-175} = \pm 5i\sqrt{7}$ 71. $\sqrt{-117} = \pm 3i\sqrt{13}$

Simplify each expression.

72. $(3 - 0) + (5 - 2i)$ 73. $(4 + 2i)(1 - 0)$ 74. $(4 + 2i) - (3 + 5i)$
 75. $(8 - 3i)(6 + 9i)$ 76. $(2 + 5i) - (-2i)$ 77. $(-2 - 3i)(7 - 0)$
 78. $x^2 + 16 = 0$ 79. $3x^2 = x - 9$ 80. $x^2 + 10 = 4x - 2$

Lesson 4-9

Solve each system.

81. $\begin{cases} y = x^2 - 11x + 24 \\ x = 3 \end{cases}$ 82. $\begin{cases} y = x^2 + 2x - 8 \\ y = x + 4 \end{cases}$ 83. $\begin{cases} y = 2x^2 + 9x - 5 \\ y = x + 5 \end{cases}$
 84. $\begin{cases} y = x^2 - 3x - 7 \\ y = -x^2 - x + 5 \end{cases}$ 85. $\begin{cases} y = 2x^2 + x + 4 \\ y = -x^2 - x + 9 \end{cases}$ 86. $\begin{cases} y = x^2 + 10x - 1 \\ y = \frac{1}{2}x^2 + x - 6 \end{cases}$
 87. $\begin{cases} y = x^2 - 11x + 24 \\ x = 3 \end{cases}$ 88. $\begin{cases} y = x^2 + 2x - 8 \\ y = x + 4 \end{cases}$ 89. $\begin{cases} y = 2x^2 + 9x - 5 \\ y = x + 5 \end{cases}$
 90. $\begin{cases} y = x^2 - 3x - 7 \\ y = -x^2 - x + 5 \end{cases}$ 91. $\begin{cases} y = 2x^2 + x + 4 \\ y = -x^2 - x + 9 \end{cases}$ 92. $\begin{cases} y = x^2 + 10x - 1 \\ y = \frac{1}{2}x^2 + x - 6 \end{cases}$

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