

**Question 1:** What is the **solution**

to  $5p - 1 = 7 - 3(p + 2)$  ?

- A. 4    B.  $\frac{1}{4}$     C. -4    D.  $-\frac{1}{4}$

**Question 2:** What is the y-value of the **solution** to the **system of equations**?

$$\begin{aligned} 2x + y &= -4 \\ -3y &= 2x + 12 \end{aligned}$$

- A. 0    B. 4    C. -4    D. 8

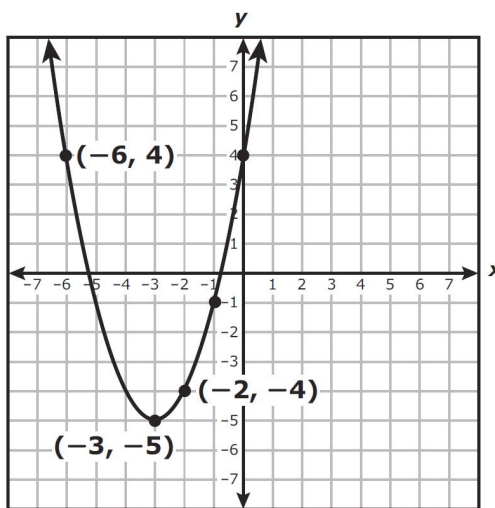
**Question 3:** What are the **solutions** to  $2(x - 7)^2 = 32$  ?

- F.  $x = 7 \pm \sqrt{32}$     H.  $x = -1$  and  $x = 15$   
 G.  $x = \pm \sqrt{65}$     J.  $x = 3$  and  $x = 11$

**Question 4:** What is the **solution set** for  $2a - 3 < 7 - 3a$  ?

- A.  $a < 2$     C.  $a > 5$   
 B.  $a < 5$     D.  $a > 2$

**Question 5:** The graph of quadratic function  $f$  is shown on the grid. What is the y-intercept of the graph of  $f$  ?



**Answer :** \_\_\_\_\_.

**Question 6:** Which ordered pair is in the solution set of  $y - x \geq 3$  ?

- F. (1, 3)    H. (3, -1)  
 G. (3, 1)    J. (-1, 3)

**Question 7:** Given that function  $h(t) = -5t^2 - 20t + 74$ . What is the **value** of  $h(2)$  ?

**Answer :** \_\_\_\_\_.

**Question 8:** What **value** of  $y$  makes

$\frac{2}{5}(5y - 20) = 11 - \frac{3}{2}(4y - 14)$  **true**?

- F. -3    G. 6    H. -8    J. 5

**Question 9:** Which **expression** is **equivalent** to  $\sqrt{300}$  ?

- A.  $10\sqrt{3}$     C.  $50\sqrt{6}$   
 B.  $150\sqrt{2}$     D.  $100\sqrt{3}$

**Question 10:** Which **expression** is **equivalent** to  $24x^2 + 53x - 7$  ?

- A.  $(3x + 1)(8x + 7)$     C.  $(8x - 1)(3x + 7)$   
 B.  $(3x - 1)(8x - 7)$     D.  $(8x + 1)(3x - 7)$

**Question 11:** Which of the following is **equivalent** to  $x - 2y = 2$  ?

- F.  $y = 2x + \frac{1}{2}$     H.  $y = -\frac{1}{2}x + 1$   
 G.  $y = \frac{1}{2}x - 1$     J.  $y = 2x - 1$

**Question 12:** Which **expression** is **equivalent** to  $(x^2)^6$  ?

- F.  $x^8$     G.  $x^4$     H.  $x^{12}$     J.  $x^3$

