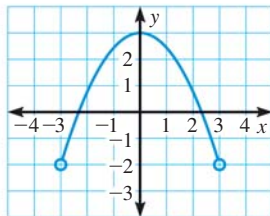


## MIXED TAKS PRACTICE

7. An escalator rises a vertical distance of 28 feet and ascends at an angle of  $30^\circ$ . What is the approximate length of the escalator? **TAKS Obj. 6**
- A** 24.4 feet  
**B** 39.6 feet  
**C** 48.5 feet  
**D** 56.0 feet

8. What is the domain of the function represented by the graph? **TAKS Obj. 2**



- F**  $-3 \leq x \leq 3$   
**G**  $-3 < x < 3$   
**H**  $-2 < x \leq 3$   
**J**  $-2 < x < 3$
9. Hillary works at a department store and earns \$25,000 per year plus 3% commission on her sales. Which equation represents the relationship between the amount of sales,  $s$ , and Hillary's total salary,  $t$ ? **TAKS Obj. 1**
- A**  $t = 0.03(s - 25,000)$   
**B**  $t = 25,000 + 0.03s$   
**C**  $t = 25,000 + 3s$   
**D**  $t = 25,000(3 + s)$

10. What is the solution set for the equation  $3x^2 - 11x - 4 = 0$ ? **TAKS Obj. 5**

- F**  $\left\{-\frac{2}{3}, 8\right\}$   
**G**  $\left\{-\frac{1}{3}, 4\right\}$   
**H**  $\left\{\frac{1}{3}, -4\right\}$   
**J**  $\left\{\frac{5}{12}, \frac{13}{4}\right\}$

11. A basketball player scores 37 points in a game by shooting two-point and three-point baskets. She makes a total of 17 baskets. How many two-point baskets did she make? **TAKS Obj. 4**

- A** 13  
**B** 14  
**C** 15  
**D** 16

12. What is the slope of the graph of  $y = x - 5$ ? **TAKS Obj. 3**

- F** -5  
**G** -1  
**H** 1  
**J** 5

13. Joe is running at a constant speed of 6 miles per hour. He then accelerates at a constant rate for 20 seconds. What additional information do you need to determine Joe's speed after 20 seconds? **TAKS Obj. 10**

- A** Joe's speed prior to acceleration  
**B** The length of time Joe accelerates  
**C** Joe's maximum running speed  
**D** Joe's rate of acceleration

14. **GRIDDED ANSWER** The table shows the numbers of male and female students in a certain high school. What is the probability (rounded to three decimal places) that a randomly selected student is a junior? **TAKS Obj. 9**

	Male	Female
Freshman	95	100
Sophomore	88	76
Junior	105	101
Senior	90	95

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.