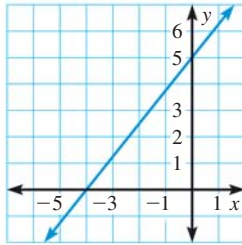


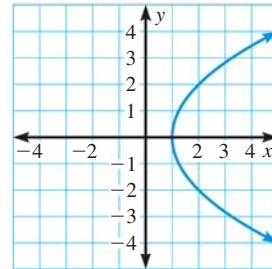
MIXED TAKS PRACTICE

7. Which equation does the graph represent?
TAKS Obj. 1



- A** $5x - 4y = -20$
B $5x - 4y = 20$
C $5x + 4y = -20$
D $5x + 4y = 0$
8. A person is standing at the end of the shadow of a bur oak tree, 40 feet from the tree's base. The angle of elevation to the sun is about 60° . About how tall is the tree? *TAKS Obj. 6*
- F** 40 ft
G 56 ft
H 69 ft
J 80 ft
9. Hooke's law states that the distance a spring is stretched (or compressed) is directly proportional to the force on the spring. A force of 50 pounds stretches a spring 3 inches. What force is required to stretch the same spring 4.5 inches? *TAKS Obj. 3*
- A** 33 lb
B 60 lb
C 75 lb
D 90 lb
10. Which equation will produce the narrowest parabola when graphed? *TAKS Obj. 5*
- F** $y = -1.5x^2$
G $y = -\frac{2}{3}x^2$
H $y = 0.5x^2$
J $y = 2x^2$

11. What is the domain of the relation shown in the graph? *TAKS Obj. 2*



- A** $-4 \leq x \leq 4$
B $x \leq 1$
C $x \geq 1$
D All real numbers
12. The list shows Lisa's scores on four of five exams. To achieve a final grade of A, she needs a final average of 90 or greater. Which inequality represents the possible scores s Lisa can earn on the fifth exam if she is to achieve a final grade of A? *TAKS Obj. 4*
- 94, 85, 89, 90
- F** $s \leq 90$
G $s \leq 96$
H $s \geq 90$
J $s \geq 92$
13. What is the slope of the line identified by $3y = 15(x - 5)$? *TAKS Obj. 3*
- A** -25
B -5
C 5
D 18
14. **GRIDDED ANSWER** The price of a digital audio player is \$212.50. The total cost, including sales tax, is \$227.91. What is the sales tax to the nearest percent? *TAKS Obj. 9*

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