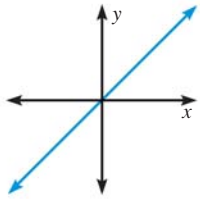
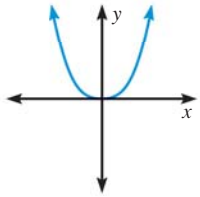
MIXED TAKS PRACTICE

5. Which is the best representation of the function $y = x^2$? *TAKS Obj. 2*

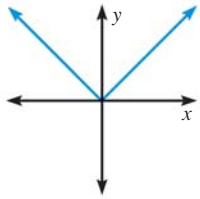
A



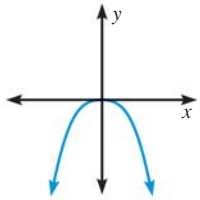
B



C



D



6. The area of a rectangle is $42m^{12}n^6$ square units. If the length of the rectangle is $7m^4n^3$ units, how many units wide is the rectangle? ($m \neq 0$ and $n \neq 0$) *TAKS Obj. 5*

F $6m^3n^2$

G $6m^8n^3$

H $35m^3n^2$

J $35m^8n^3$

7. You are going on a 450 mile trip by car. You can travel 30 miles per gallon of gas, which costs \$2.50 per gallon. You have to pay a \$2 toll on one of the roads you plan to take. You plan to spend about \$15 on food for the day. About how much will the trip cost? *TAKS Obj. 10*

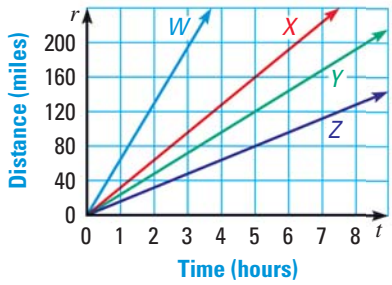
A \$39.50

B \$52.50

C \$54.50

D \$92.00

8. In the distance formula $d = rt$, r represents the rate of change, or slope. Which ray on the graph best represents a slope of 65 miles per hour? *TAKS Obj. 3*



F W

G X

H Y

J Z

9. GRIDDED ANSWER The trailer of a shipping truck is a rectangular prism that is 6 feet high, 6 feet wide, and 14 feet long. A business uses the truck to transport merchandise, which is packed in crates. The crates are rectangular prisms that are 2 feet high, 2 feet wide, and 3 feet long. Each crate holds 10 items of merchandise. How many items can fit in the truck? *TAKS Obj. 8*

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