MIXED TAKS PRACTICE

9. A group of hikers plans to travel 25 miles. Which graph best represents the time it will take to complete the hike, *t*, as a function of the hikers' average rate, *r*? *TAKS Obj. 1*

A

B

C

D
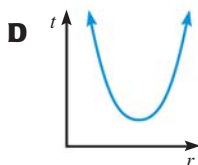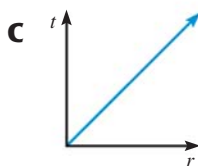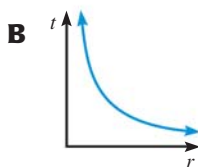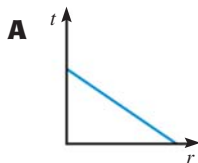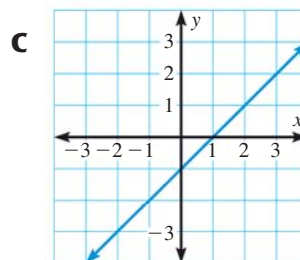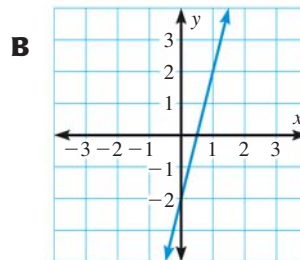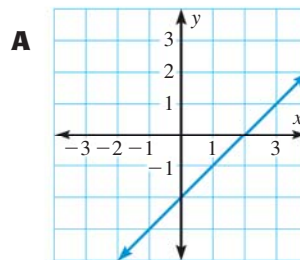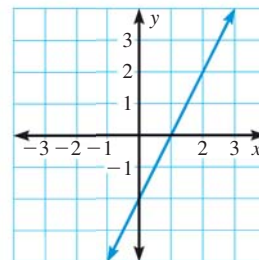
10. △*ABC* has vertices *A*(3, 2), *B*(−2, −4), and *C*(1, −3). △*ABC* is dilated by a scale factor of $\frac{1}{2}$ and has the origin as the center of dilation. What are the coordinates of *B*′? *TAKS Obj. 6*

F (−2, −4)

G (−1, −2)

H (1, 2)

J (2, −4)

11. The graph of a line is shown. Which graph best represents the line if its slope is halved and its *y*-intercept remains constant? *TAKS Obj. 3*

A

B

C

D Not here

12. **GRIDDED ANSWER** The walls and ceiling of a room are being painted. The floor and ceiling are rectangles that are 10 feet wide and 12 feet long. The walls are 8 feet high. If you can paint at a rate of 40 square feet per hour, how many hours will it take you to paint the room? *TAKS Obj. 8*

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