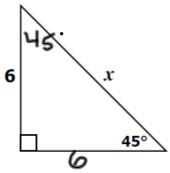
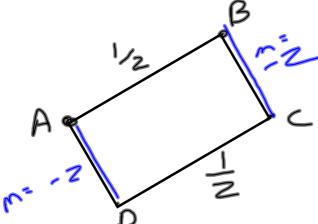
22



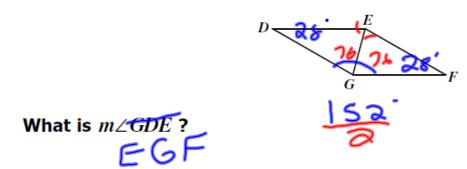
In the figure, what is the value of x?

- **F** 6
- **G** $6\sqrt{2}$
- **H** $6\sqrt{3}$
- **J** 12

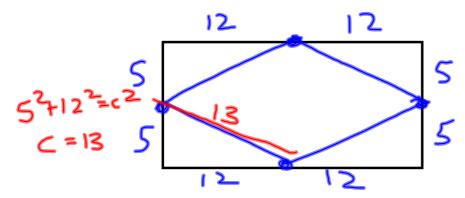
29 In rectangle ABCD, the slope of \overline{AB} is $\frac{1}{2}$. What is the slope of \overline{CD} ?



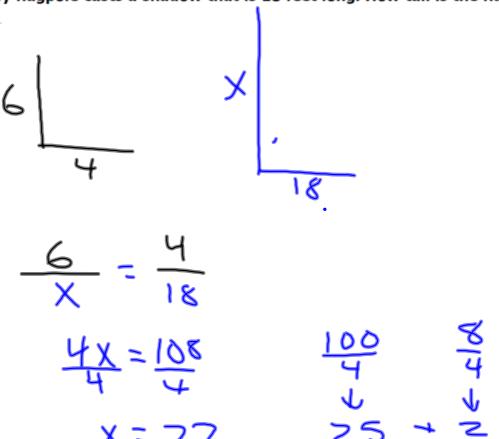
31 DEFG is a rhombus with $m \angle EFG = 28^{\circ}$.



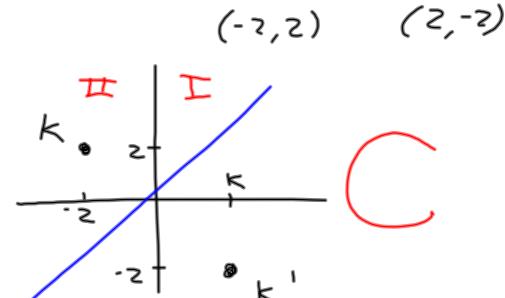
33 A rectangular rug is 24 feet long and 10 feet wide. A rhombus design is formed inside the rug by joining the midpoints of each side of the rectangle. What is the length of each side of the rhombus?



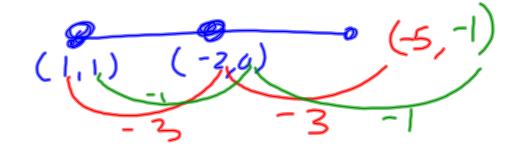
A man who is 6 feet tall casts a shadow that is 4 feet long. At the same time, a nearby flagpole casts a shadow that is 18 feet long. How tall is the flagpole?



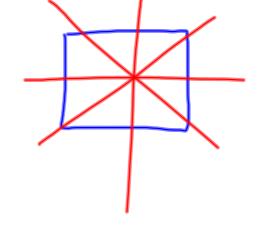
- 39 Cone has a slant height of 10 centimeters and a lateral area of 60π square centimeters. What is the volume of a sphere with a radius equal to that of the cone?
 - **A** $102\pi \text{ cm}^3$
 - **B** 144 π cm³
 - **C** $288\pi \text{ cm}^3$
 - **D** 1,333 π cm³
- L.A. = TI·C.L 601/ = TI·C. 10 101/ TI·
- 5phile 13 -43 (11 6 -288 (11
- 40 Which line of reflection maps point K at ($^{-2}$, 2) to point K' at (2, $^{-2}$)?
 - y = 2 $\mathbf{G} \quad y = x$
 - **H** x-axis
 - J y-axis



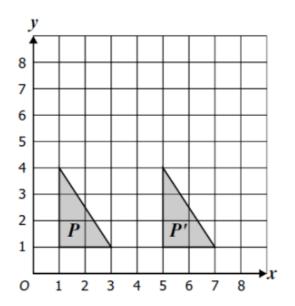
- 41 If the coordinates of A are (1, 1) and the midpoint of \overline{AB} is (-2, 0), then the coordinates of B are
 - A (-0.5, 0.5)
 - **B** (0.5, 0.5)
 - **C** (-1, 0)
 - **D** (-5, -1)



- 45 A regular quadrilateral has what type of symmetry?
 - **A** Line symmetry only
 - **B** Point symmetry only
 - Both point and line symmetry
 - **D** Neither point nor line symmetry

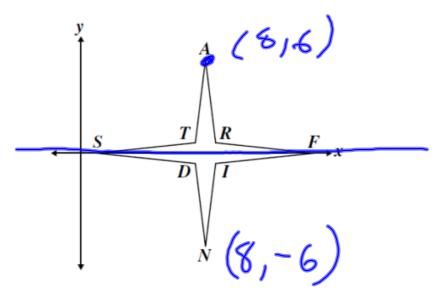


42 Which transformation could move the triangle P to triangle P' in a single step?

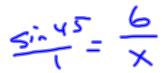


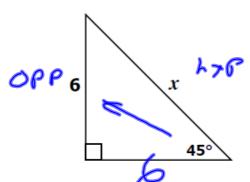
- Reflection over x = 4
 - Rotation about (2, 3)
 - Reflection over y = 4
 - J Translation

43 Figure STARFIND is symmetric with respect to the x-axis. The coordinates of point A are (8, 6). What are the coordinates of point N?



22

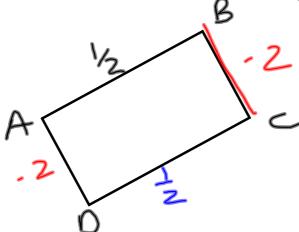




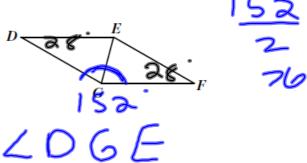
In the figure, what is the value of x?

- **F** 6
- $\mathbf{G} \quad 6\sqrt{2}$
- **H** $6\sqrt{3}$
- **J** 12

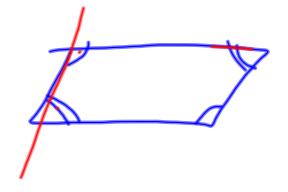
29 In rectangle ABCD, the slope of \overline{AB} is $\frac{1}{2}$. What is the slope of \overline{CD} ?



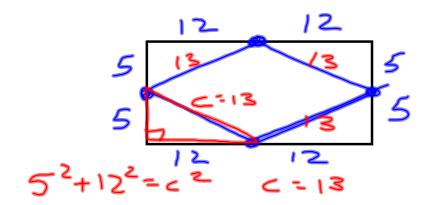
31 DEFG is a rhombus with $m \angle EFG = 28^{\circ}$.



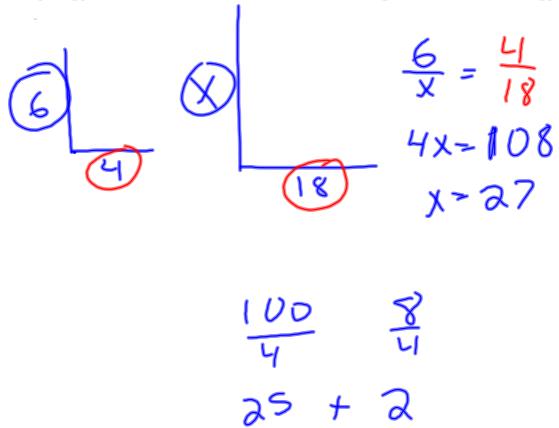
What is $m \angle GDE$?



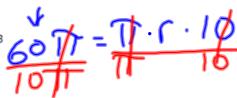
33 A rectangular rug is 24 feet long and 10 feet wide. A rhombus design is formed inside the rug by joining the midpoints of each side of the rectangle. What is the length of each side of the rhombus?



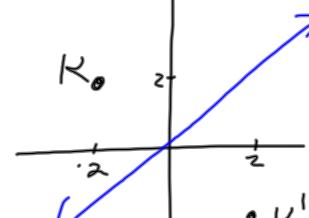
34 A man who is 6 feet tall casts a shadow that is 4 feet long. At the same time, a nearby flagpole casts a shadow that is 18 feet long. How tall is the flagpole?



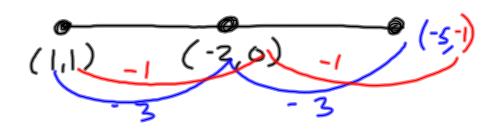
- A cone has a slant height of 10 centimeters and a lateral area of 60π square centimeters. What is the volume of a sphere with a radius equal to that of the cone?
 - **A** $102\pi \text{ cm}^3$
 - B 144 cm
 - **c** $288\pi \text{ cm}^3$
 - **D** 1,333 π cm³



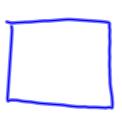
- 5ρλιτε V--43 π·63 V--43 π·63
 - 7288 M
- 40 Which line of reflection maps point K at (-2, 2) to point K' at (2, -2) ?
 - X
 - y=2
 - G :
- y = x
 - X
- *x*-axis
- y-axis

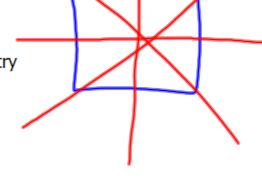


- 41 If the coordinates of A are (1, 1) and the midpoint of \overline{AB} is (2, 0), then the coordinates of B are -
 - A (-0.5, 0.5)
 - **B** (0.5, 0.5)
 - **C** (-1, 0)
 - **D** (-5, -1)

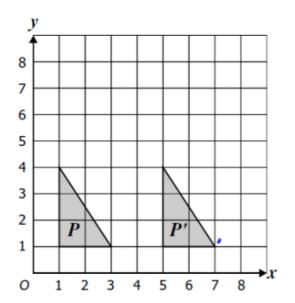


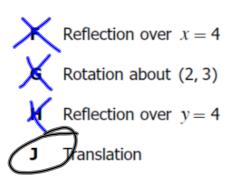
- 45 A regular quadrilateral has what type of symmetry?
 - A Line symmetry only
 - **B** Point symmetry only
 - Both point and line symmetry
 - **D** Neither point nor line symmetry





42 Which transformation could move the triangle P to triangle P^\prime in a single step?





43 Figure STARFIND is symmetric with respect to the x-axis. The coordinates of point A are (8, 6). What are the coordinates of point N?

