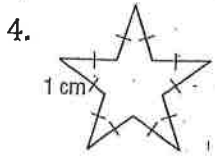


Classify each polygon by the number of sides, convex or concave, regular or irregular.



Quadrilateral
Convex
Irregular

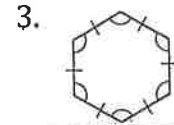
Find the perimeter of each polygon.



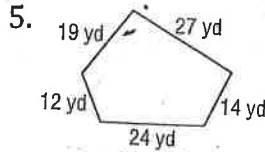
10cm



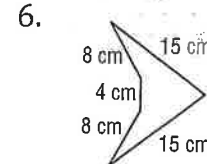
Pentagon
Concave
Irregular



Octagon
Convex
Regular



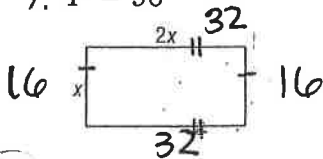
96 yd



50cm

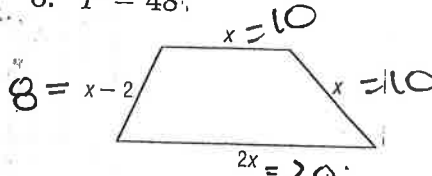
Find the length of each side of the polygon.

7. $P = 96$



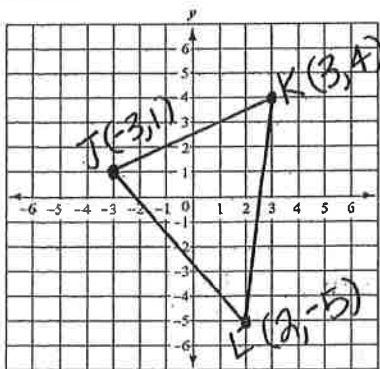
$6x = 96$
 $x = 16$

8. $P = 48$



$5x - 2 = 48$
 $5x = 50$
 $x = 10$

9. Find the perimeter of triangle JKL graphed below. Round your answer to 3 decimal places. Show all work!



$\sqrt{(3 - (-3))^2 + (4 - 1)^2} = \sqrt{45}$

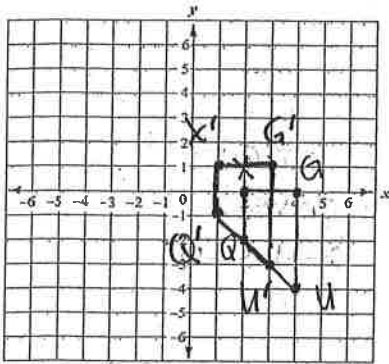
$\sqrt{(3 - 2)^2 + (4 - (-5))^2} = \sqrt{82}$

$\sqrt{(2 - (-3))^2 + (-5 - 1)^2} = \sqrt{61}$

$P = \sqrt{45} + \sqrt{82} + \sqrt{61} = 23.574$

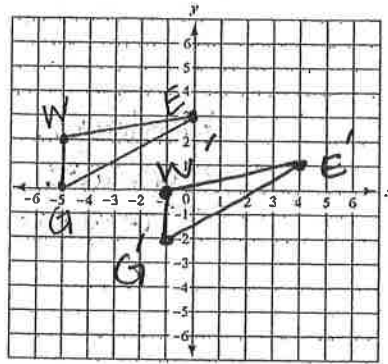
Translate each polygon.

10. 1 unit left, 1 unit up



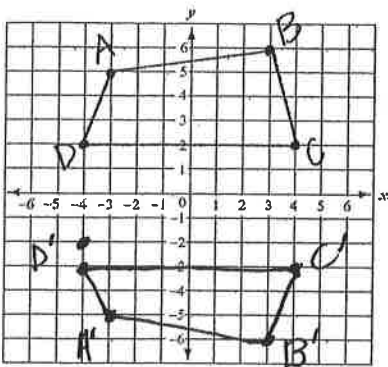
$(x-1, y+1)$

11. 4 units right, 2 units down

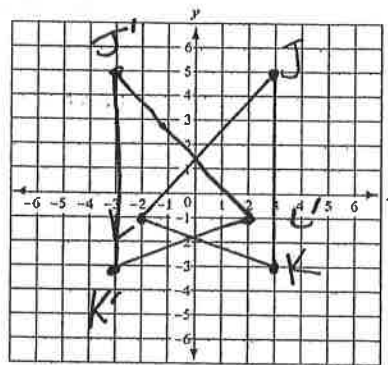


Reflect each polygon.

12. x - axis



13. y - axis



Describe each transformation.

14. A(-3, 2) B(1, 4) C(0, -2)

A'(3, 2) B'(-1, 4) C'(0, -2)

$(x, y) \rightarrow (-x, y)$

reflect across
y-axis

15. A(-3, 2) B(1, 4) C(0, -2)

A'(-1, 2) B'(3, 4) C'(2, -2)

Translate

$(x, y) \rightarrow (x+2, y)$

16. A(-3, 2) B(1, 4) C(0, -2)

A'(-3, -2) B'(1, -4) C'(0, 2)

$(x, y) \rightarrow (x, -y)$

reflect across
x-axis

17. A(-3, 2) B(1, 4) C(0, -2)

A'(-4, 5) B'(0, 7) C'(-1, 1)

Translate

$(x, y) \rightarrow (x-1, y+3)$