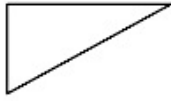
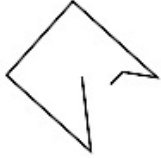
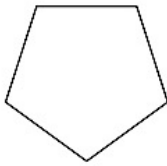
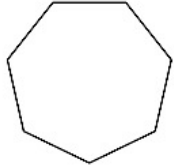
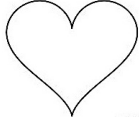

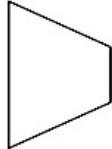
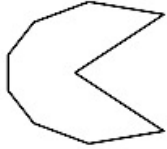


Determine if the figure is a polygon. If so, classify the polygon by number of sides. Tell whether it is convex or concave.

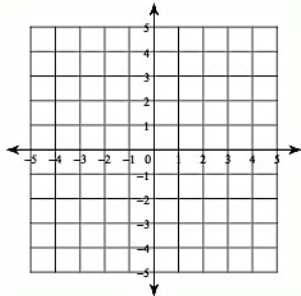
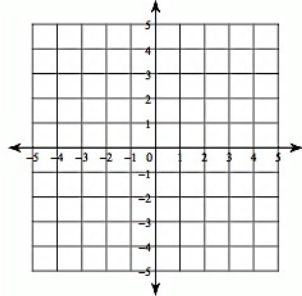
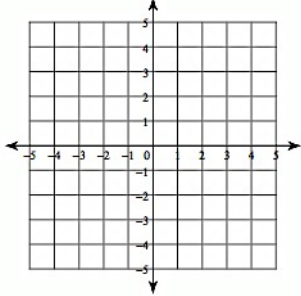
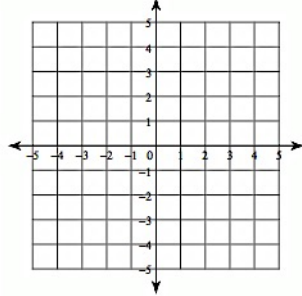
<p>1. </p> <p>Polygon: Yes or No Classify # sides: _____ Circle: Convex or concave</p>	<p>2. </p> <p>Polygon: Yes or No Classify # sides: _____ Circle: Convex or concave</p>	<p>3. </p> <p>Polygon: Yes or No Classify # sides: _____ Circle: Convex or concave</p>	<p>4. </p> <p>Polygon: Yes or No Classify # sides: _____ Circle: Convex or concave</p>
<p>5. </p> <p>Polygon: Yes or No Classify # sides: _____ Circle: Convex or concave</p>	<p>6. </p> <p>Polygon: Yes or No Classify # sides: _____ Circle: Convex or concave</p>	<p>7. </p> <p>Polygon: Yes or No Classify # sides: _____ Circle: Convex or concave</p>	<p>8. </p> <p>Polygon: Yes or No Classify # sides: _____ Circle: Convex or concave</p>

9. Emily's family is building a pool in the shape of a nonagon. How many sides will the pool have? _____

10. While reading a book about buildings, Bianca saw a building with 6 sides. This building is an example of what shape?

Distance formula: _____ Area \square : _____ Area Δ : _____

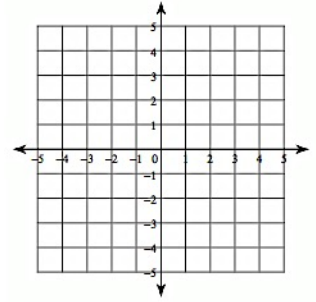
Find the perimeter and area of the polygon with the given vertices.

<p>11. A(-2, 5); B(3, 5); C(-2, -1); D(3, -1)</p> <p>AB: _____ BC: _____ CD: _____ AD: _____</p> <p>Perimeter: _____</p> <p>Area: _____</p> 	<p>12. P(0, 1); Q(0, 4); R(3, 4); S(3, 1)</p> <p>PQ: _____ QR: _____ RS: _____ SP: _____</p> <p>Perimeter: _____</p> <p>Area: _____</p> 
<p>13. D(0, -3); G(0, 0); H(5, 0)</p> <p>DG: _____ GH: _____ DH: _____</p> <p>Perimeter: _____</p> <p>Area: _____</p> 	<p>14. J(-4, -2); K(-4, 2); L(1, 0)</p> <p>JK: _____ KL: _____ JL: _____</p> <p>Perimeter: _____</p> <p>Area: _____</p> 

14. $M(-5, -1)$; $N(3, -1)$; $P(3, 4)$

MN: _____ NP: _____ MP: _____

Perimeter: _____ Area: _____



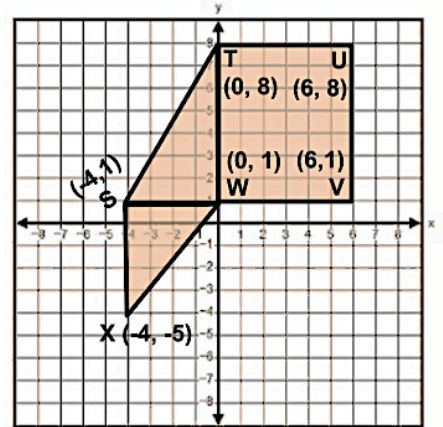
In exercises 15 - 20, use the diagram.

15. Find the perimeter of $\triangle STW$.

16. Find the perimeter of $\triangle XSW$.

17. Find the perimeter of quadrilateral TWXS.

18. Find the area of quadrilateral TUVW.



19. Find the area of $\triangle STW$.

20. Find the area of quadrilateral STUV.

21. You and your friend go for a walk around town. You walk 1.5 mile east and then 4 miles south. You then return to where you started. How far do you travel during your entire walk?