


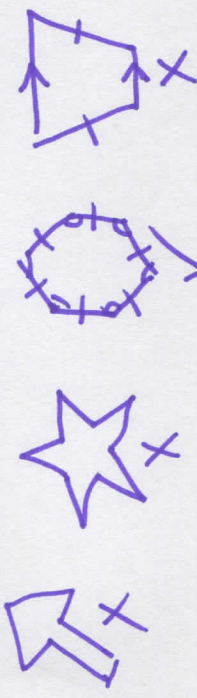
1.4 Perimeter, Area, & Polygons

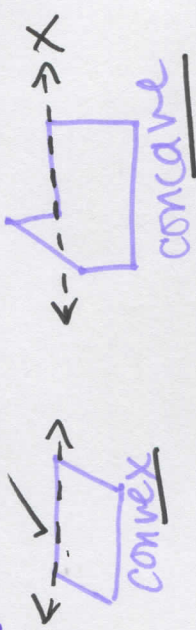
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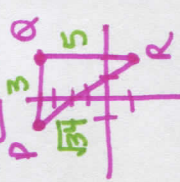
Lesson Title

Y Tasks

1.  $3mi = 15,840 ft$
 $6000 + 2x = 15840$
 $2x = 9840$
 $x = 4920 ft$



4. 
 regular \Rightarrow same sides, same x 's


5. 
 convex
 concave

6. 
 $\Delta PQR: P(-1,4); Q(2,4); R(2,-1)$
 $PR \Rightarrow d = \sqrt{(-1-2)^2 + (4+1)^2} = \sqrt{34}$
 $= \sqrt{(-3)^2 + (5)^2} = \sqrt{9+25} = \sqrt{34}$
 $P = 3 + 5 + \sqrt{34} = 8 + \sqrt{34} u$
 Still need help with: $A = \frac{(3)(5)}{2} = \frac{15}{2} u$


Definition: closed figure w/ 3+ line segments as sides

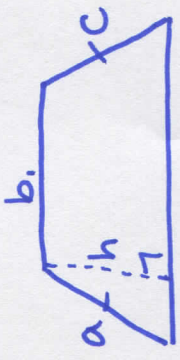
Polygons

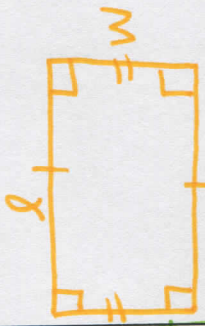
1. 
2. 
3. triangle
4. quadrilateral
5. pentagon
6. hexagon
7. heptagon
8. octagon
9. nonagon
10. decagon
11. hendecagon
12. dodecagon

Not Polygons: no curves or openings


Formulas


 $P = a + b + c$
 $A = \frac{1}{2}bh$


 $P = a + b + c + b_2$
 $A = \frac{1}{2}h(b_1 + b_2)$


 $P = 2l + 2w$
 $A = lw$