

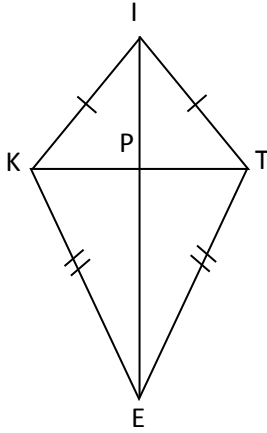
Answers Only

6.6 Day 1 HW - Properties of Kites

- 1) Given: $m\angle IPT = (5x - 10)^\circ$
 $KP = 6x$

Find: KT

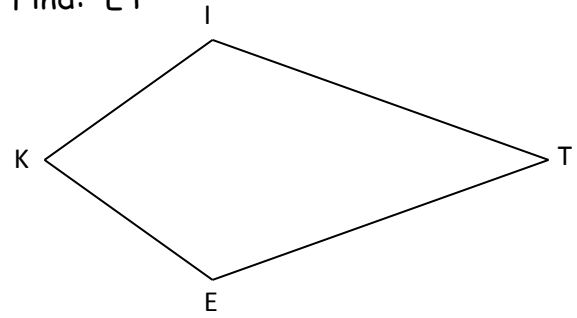
$KT = 240$



- 2) Given: KITE is a kite. $KI = x^2 - 3x$,
 $KE = 2x + 36$, and $IT = 3x^2$.
 $IT = ET$

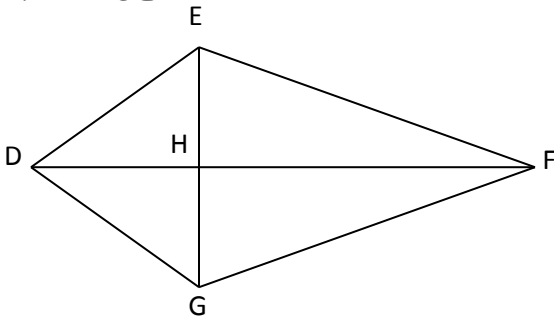
Find: ET

$ET = 248$ or 48



- 3) Given: DEFG is a kite. $DE = DG$
 $\angle EHD = (2x - 30)^\circ$, $EF = 2x - y$,
 $FG = 90$, and $DG = x - y$.

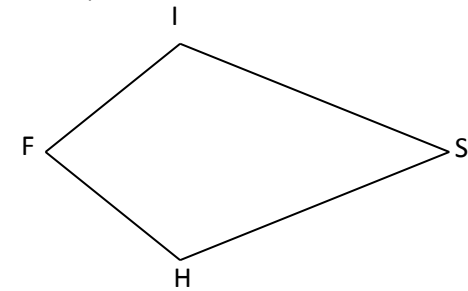
Find: DE



$DE = 30$

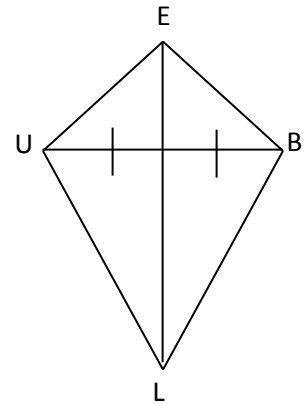
- 4) Given: FISH is a kite. $HF = 2a - 50$
 $IS = a^2 - 27a - 68$, $HS = 5a$.
 $FI = FH$

Find: FI



$FI = 18$

- 5) Given: BLUE is a kite. $EB = x + 3$, $BL = x + 4$,
 $UL = 2x - 1$, and $EU = 3x - y$.
 Solve for x and y . What is the perimeter of the kite?



Handwritten solution for problem 5:

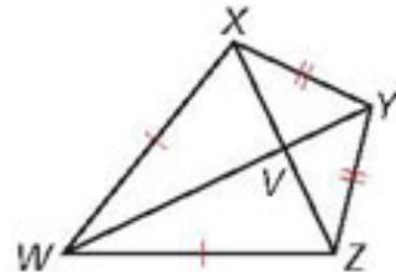
$$x = 5$$

$$y = 7$$

$$P = 34$$

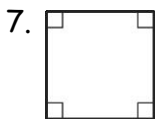
- 6) In kite WXYZ, $m\angle WXY = 104^\circ$ and $m\angle VYZ = 49^\circ$. Find each measure:

- a) $m\angle VZY = 41^\circ$
 b) $m\angle VXW = 63^\circ$
 c) $m\angle XWZ = 54^\circ$
 d) $m\angle XYZ = 98^\circ$
 e) $m\angle WZY = 104^\circ$

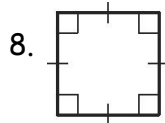


6.4, 6.5 Rectangle, Rhombus, and Square Recap

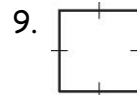
Tell whether each figure must be a rectangle, rhombus, or square based on the information given. Use the most specific name possible.



Rectangle



Square



Rhombus

VWXY is a rhombus. Find each measure.

10. $XY = 36$
 11. $m\angle YVW = 107^\circ$
 12. $m\angle VYX = 73^\circ$
 13. $m\angle XYZ = 36.5^\circ$

