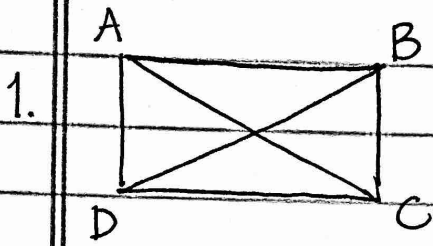


Day 03 Skills Practice KEY



$$2x+13 = 4x-1$$

$$14 = 2x$$

$$7 = x$$

$$DB = 4(7) - 1$$

$$28 - 1$$

$$DB = 27$$

2. $x+3 = 3x-19$

$$22 = 2x$$

$$11 = x$$

$$AC = x+3$$

$$11+3$$

$$AC = 14$$

3. $AE = EC$

$$3x+3 = 5x-15$$

$$18 = 2x$$

$$9 = x$$

$$AC = 3x+3+5x-15$$

$$8x-12$$

$$8(9)-12$$

$$72-12 = 60$$

4. $DE = AE$

$$6x-7 = 4x+9$$

$$2x = 16$$

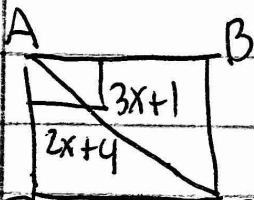
$$x = 8$$

$$DB = 2(DE)$$

$$= 2(6 \cdot 8 - 7)$$

$$2(41) = 82$$

5.



$$2x+4+3x+1 = 90$$

$$5x+5 = 90$$

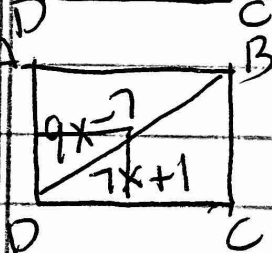
$$5x = 85$$

$$x = 17$$

$$m\angle BAC = 3(17) + 1$$

$$= 52^\circ$$

6.



$$9x-7+7x+1 = 90$$

$$16x-6 = 90$$

$$16x = 96$$

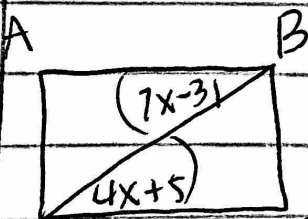
$$x = 6$$

$$m\angle BDC = 7(6) + 1$$

$$42+1$$

$$= 43^\circ$$

7.



$$7x-31 = 4x+5$$

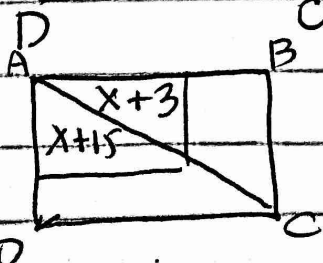
$$3x = 36$$

$$x = 12$$

$$m\angle ABD = 7(12) - 31$$

$$= 53^\circ$$

8.



$$x+3+x+15 = 90$$

$$2x+18 = 90$$

$$2x = 72$$

$$x = 36$$

$$m\angle BAC = (36) + 3$$

$$39^\circ$$

BACK :

1. $UZ = ZS$

$$x + 21 = 3x - 15$$

$$36 = 2x$$

$$x = 18$$

$$US = 2UZ$$

$$US = 2(18 + 21)$$

$$2(39) = 78$$

2. $RZ = ZS$

$$3x + 9 = 6x - 28$$

$$36 = 3x$$

$$x = 12$$

$$UZ = RZ$$

$$= 3(12) + 8$$

$$= 44$$

3. $RT = RZ \cdot 2$

$$5x + 8 = 2(4x + 1)$$

$$5x + 8 = 8x + 2$$

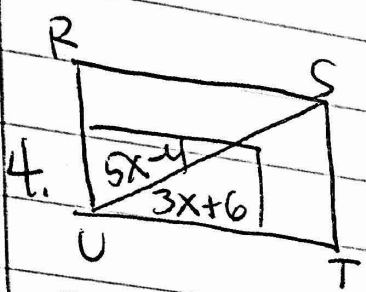
$$6 = 3x$$

$$x = 2$$

$$ZT = RZ$$

$$= 4(2) + 1$$

$$= 9$$



4.

$$5x - 4 + 3x + 6 = 90$$

$$8x + 2 = 90$$

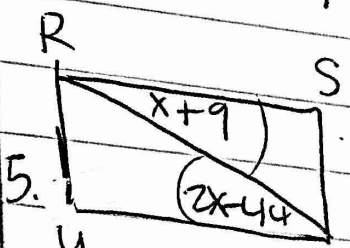
$$8x = 88$$

$$x = 11$$

$$m\angle SUT = 3(11) + 6$$

$$33 + 6$$

$$39^\circ$$



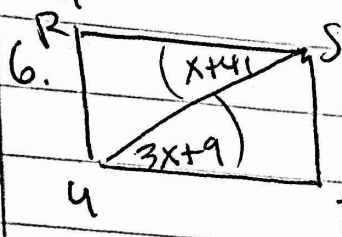
5.

$$x + 9 = 2x - 44$$

$$53 = x$$

$$m\angle UTR = 2(53) - 44$$

$$= 62^\circ$$



6.

$$x + 41 = 3x + 9$$

$$32 = 2x$$

$$x = 16$$

$$m\angle RSU = (16) + 41$$

$$= 57^\circ$$

7. $m\angle 2 = 53^\circ$

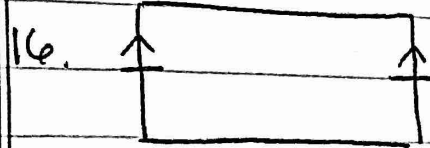
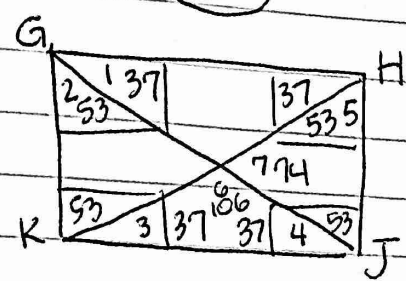
10. $m\angle 5 = 53^\circ$

8. $m\angle 3 = 37^\circ$

11. $m\angle 6 = 106^\circ$

9. $m\angle 4 = 37^\circ$

12. $m\angle 7 = 74^\circ$



16.

Not enough properties because these are guaranteeing it is a parallelogram, but there is no proof there are right angles, so it actually look like

