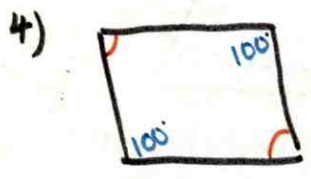
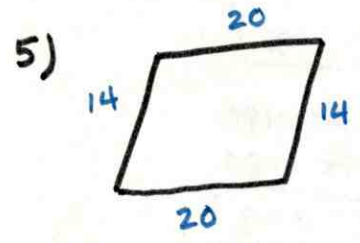


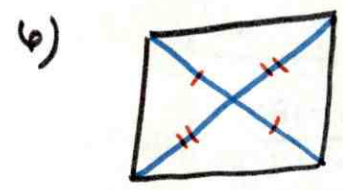
8.3



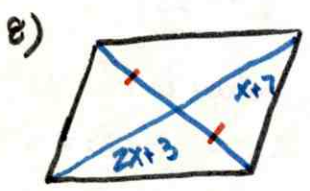
4) opp. \angle s \cong



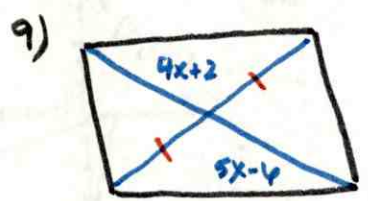
5) opp. sides \cong



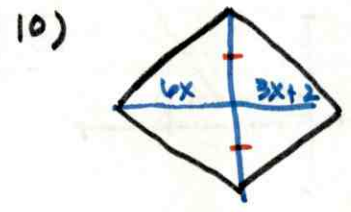
6) diagonals bisect



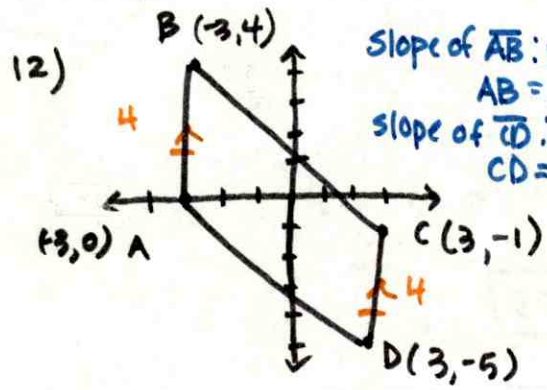
8) $2x+3 = x+7$
 $x+3 = 7$
 $x = 4$



9) $5x-4 = 4x+2$
 $x-4 = 2$
 $x = 6$

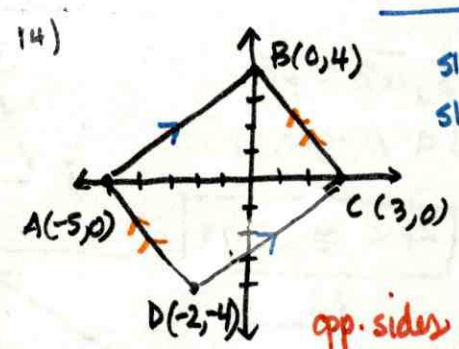


10) $6x = 3x+2$
 $3x = 2$
 $x = 2/3$



12) Slope of \overline{AB} : $m = \text{undefined}$
 $AB = 4$
 Slope of \overline{CD} : $m = \text{undefined}$
 $CD = 4$

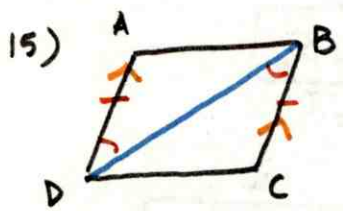
one pair of opp. sides \cong and \parallel



14) Slope of \overline{AB} : $m = 4/5$
 Slope of \overline{CD} : $m = 4/5$

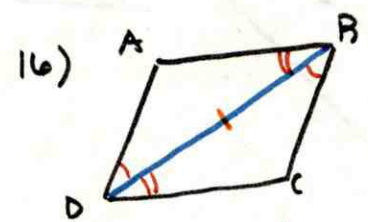
Slope of \overline{BC} : $-4/3$
 Slope of \overline{AD} : $-4/3$

opp. sides \parallel (Def. of \parallel -gram)



15) $\overline{BC} \parallel \overline{AD}$ CA1

ABCD is a \parallel -gram one pair \cong and \parallel



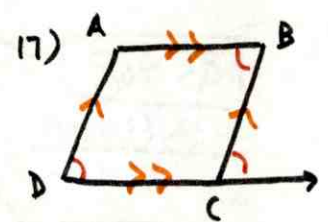
16) $\overline{BD} \cong \overline{BD}$ Reflexive

$\triangle ADB \cong \triangle CBD$ ASA

$\overline{AB} \cong \overline{CD}$ and CPCTC

$\overline{AD} \cong \overline{BC}$

ABCD is a \parallel -gram opp. sides



17) $\overline{AD} \parallel \overline{BC}$ CCA

$\overline{AB} \parallel \overline{DC}$ CA1

ABCD is a \parallel -gram Def of \parallel -gram

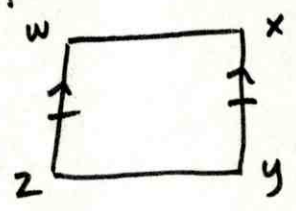
18) In quadrilateral WXYZ, \overline{WZ} and \overline{XY} are \cong and \parallel . Which is not true?

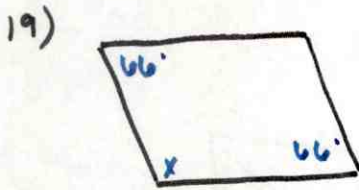
A $m\angle y + m\angle w = 180^\circ$

B $\angle x \cong \angle z$

D $\overline{WX} \parallel \overline{ZY}$

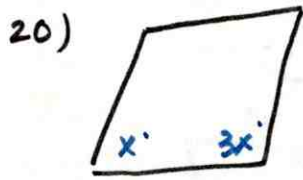
C $\overline{WX} \cong \overline{ZY}$





$$x + 66 = 180$$

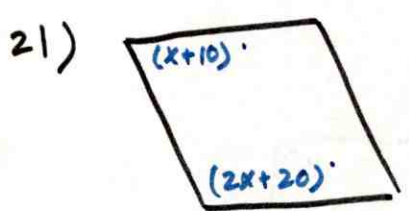
$$\boxed{x = 114}$$



$$x + 3x = 180$$

$$4x = 180$$

$$\boxed{x = 45}$$

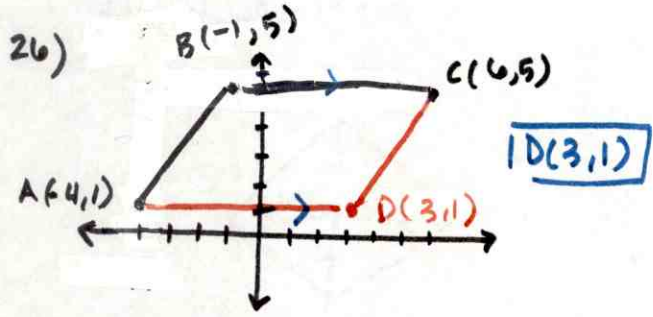


$$x + 10 + 2x + 20 = 180$$

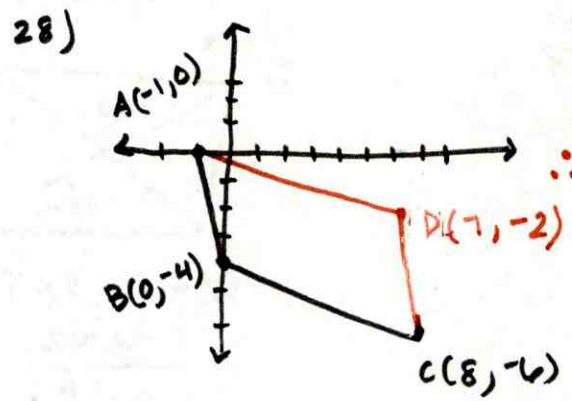
$$3x + 30 = 180$$

$$3x = 150$$

$$\boxed{x = 50}$$

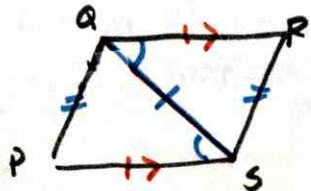


slope of \overline{BC} : $m = 0$ | slope of \overline{AD} : $m = 0$
 $BC = 7$ | $AD = 7$
 $-4 + 7 = 3$



slope of \overline{AB} : $m = -4$
 \therefore slope of \overline{CD} : $m = -4$
 $C(8, -6)$
 $D(7, -2)$
 $\frac{-1}{7} = \frac{-4}{-2}$
 $\boxed{D(7, -2)}$

33) Given: $\overline{QR} \parallel \overline{PS}$, $\overline{QR} \cong \overline{PS}$
 Prove: PQRS is a // -gram



$\overline{QR} \parallel \overline{PS}$ Given	\rightarrow	$\angle PSQ \cong \angle RQS$ A1	\rightarrow	$\triangle RSQ \cong \triangle PQS$ SAS	\rightarrow	$\overline{RS} \cong \overline{PQ}$ CPCTC	\rightarrow	$\square PQRS$ is a // -gram opp. sides \cong
		$\overline{QS} \cong \overline{QS}$ Reflexive	\rightarrow					
		$\overline{QR} \cong \overline{PS}$ Given	\rightarrow					

40)