

Geo Clp 7

7.1 #1-29

$$(3) (9-2)180 = 1260$$

$$(4) (14-2)180 = 2160$$

$$(5) (16-2)180 = 2520$$

$$(6) (20-2)180 = 3240$$

$$(7) (n-2)180 = 720$$

$$n-2 = 4$$

$$n = 6$$

$$(8) (n-2)180 = 1080$$

$$n-2 = 6$$

$$n = 8$$

$$(9) (n-2)180 = 2520$$

$$n-2 = 14$$

$$n = 16$$

$$(10) (n-2)180 = 3240$$

$$n-2 = 18$$

$$n = 20$$

$$(11) X + 100 + 130 + 65 = 360$$

$$X + 295 = 360$$

$$X = 65^\circ$$

$$(12) X + 103 + 133 + 58 = 360$$

$$X + 294 = 360$$

$$X = 66^\circ$$

$$(13) X + 154 + 88 + 29 = 360$$

$$X + 271 = 360$$

$$X = 89^\circ$$

$$(14) X + 92 + 68 + 101 = 360$$

$$X + 261 = 360$$

$$X = 99^\circ$$

$$(15) 6 \text{ sides}$$

$$\text{Sum} = 720^\circ$$

$$X + 102 + 146 + 120 + 124 + 158 = 720$$

$$X + 650 = 720$$

$$X = 70^\circ$$

$$(16) 5 \text{ sides, sum} = 540^\circ$$

$$X + 86 + 140 + 138 + 59 = 540$$

$$X + 423 = 540$$

$$X = 117^\circ$$

$$(17) 6 \text{ sides sum } 720^\circ$$

$$X + 121 + 96 + 101 + 162 + 90 = 720$$

$$X + 570 = 720$$

$$X = 150^\circ$$

$$(18) 7 \text{ sides sum} = 900$$

$$X + 143 + 2x + 152 + 116 + 125 +$$

$$140 + 139 = 900$$

$$3x + 815 = 900$$

$$3x = 85$$

$$X = 28.33^\circ$$

$$\begin{aligned} (19) \quad 2x + 164 + 102 + 90 &= 540 && 5 \text{ sides} \\ 2x + 356 &= 540 \\ 2x &= 184 \\ \boxed{x = 92^\circ} \end{aligned}$$

$$\begin{aligned} (20) \quad 47 + 2x + 90 + 119 &= 540 && 5 \text{ sides} \\ 2x + 256 &= 540 \\ 2x &= 284 \\ \boxed{x = 142^\circ} \end{aligned}$$

$$\begin{aligned} (21) \quad 90 + 99 + 171 + 2x + 159 &= 720 && 6 \text{ sides} \\ 2x + 519 &= 720 \\ 2x &= 201 \\ \boxed{x = 100.5^\circ} \end{aligned}$$

$$\begin{aligned} (22) \quad 2x + 100 + 110 + 149 + 91 &= 720 && 6 \text{ sides} \\ 2x + 450 &= 720 \\ 2x &= 270 \\ \boxed{x = 135^\circ} \end{aligned}$$

$$\begin{aligned} (23) \quad x + 65 + 106 + 78 &= 360 \\ x + 249 &= 360 \\ \boxed{x = 111^\circ} \end{aligned}$$

$$\begin{aligned} (24) \quad 50 + 48 + 59 + x + x + 58 + 39 &= 360 \\ 2x + 254 &= 360 \\ 2x &= 106 \\ x &= 53 \end{aligned}$$

$$\begin{aligned} (25) \quad 71 + 85 + 44 + 3x + 2x &= 360 \\ 5x + 200 &= 360 \\ 5x &= 160 \\ \boxed{x = 32} \end{aligned}$$

7.1 #1-29

(26) $45 + 40 + x + 77 + 2x = 360$

$$3x + 162 = 360$$

$$3x = 198$$

$$x = 66$$

(27) 5 sides

$$\text{Sum} = 540$$

$$\frac{540}{5} = \boxed{108^\circ} \text{ interior each } \angle$$

$$\frac{360}{5} = \boxed{72^\circ} \text{ each exterior } \angle$$

(28) 18 sides

$$\text{Sum} = 2880$$

$$\frac{2880}{18} = \boxed{160^\circ} \text{ interior}$$

$$\frac{360}{18} = \boxed{20^\circ} \text{ exterior}$$

(29) 45 sides

$$\text{Sum} = 7740$$

$$\frac{7740}{45} = \boxed{172^\circ}$$

$$\frac{360}{45} = \boxed{8^\circ}$$

7.2

p 372 #1-20

③ $x = 9$ $y = 15$

④ $n = 12$ $m + 1 = 6$
 $m = 5$

⑤ $20 = z - 8$

$28 = z$

$105 = d - 21$

$126 = d$

⑧ $b - 10 + b + 10 = 180$

$2b = 180$

$b = 90^\circ$

$d = 90^\circ$

$c = 90^\circ$

⑥ $65 = g + 4$

$61 = g$

$7 = 16 - h$

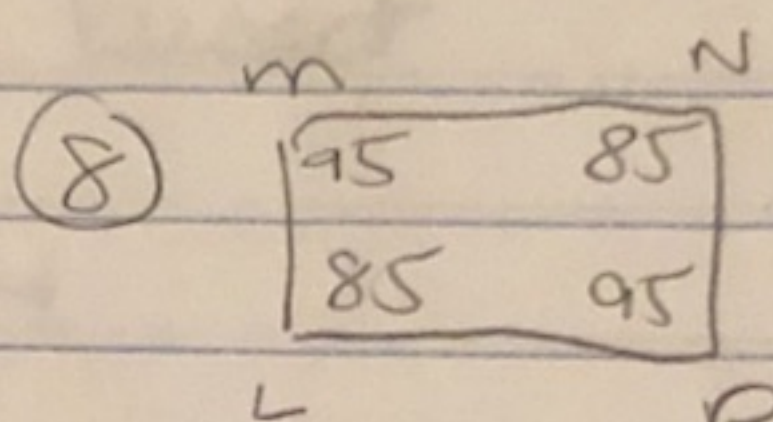
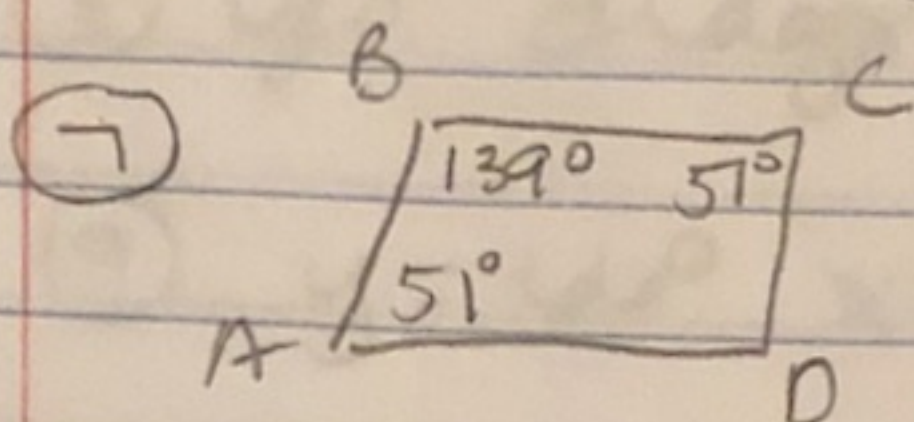
$-9 = -h$

$h = 9$

⑨ $k + 4 = 11$

$k = 7$

$m = 8$



⑩ $2u + 2 = 5u - 10$

$12 = 3u$

$4 = u$

$4 = u$

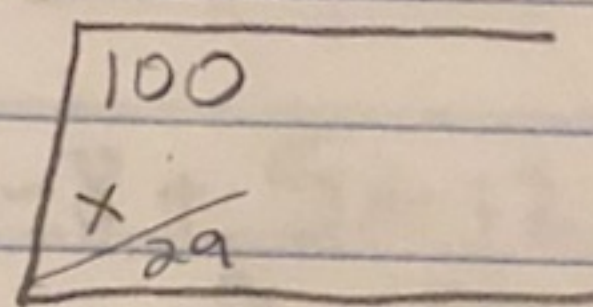
⑪ 13

⑫ 7

⑬ 8

⑭ 16.4

⑮



$100 + x + 29 = 180$

$x = 51$

$51 + 29 = 80^\circ$

⑯ 80°

⑰ 100°

⑱ 29°

⑲ $2m = 70$

$m = 35$

$n = 110^\circ$

$6 = \frac{v}{3}$

$18 = v$

D3 7.3 p 1-20

- (3) yes - opp $\angle$'s $\cong$
(4) yes - opp sides $\cong$
(5) yes - diagonals bisect
(6) yes - opp $\angle$'s $\cong$ OR consecutive $\angle$'s supplementary

(7) ^{4th} One pair $\cong$ and $\parallel$

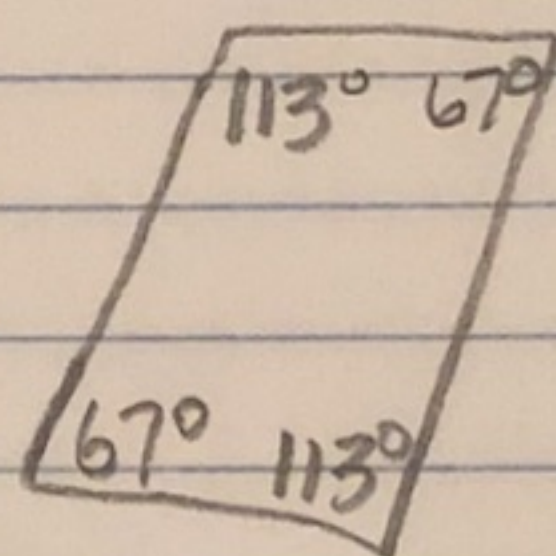
(8) yes diagonals bisect

(9) $y = 66^\circ$ $x = 114$

(10) $x = 16$ $y = 9$

(11) $4x + 6 = 7x - 3$ $4y - 3 = 3y + 1$
 $9 = 3x$ $y = 4$
 $3 = x$

(12) $3x - 8 + 5x - 12 = 180$
 $8x - 20 = 180$
 $8x = 200$
 $x = 25$



$4y + 7 = 67$
 $4y = 60$
 $y = 15$

(13) $4x + 2 = 5x - 6$
 $8 = x$

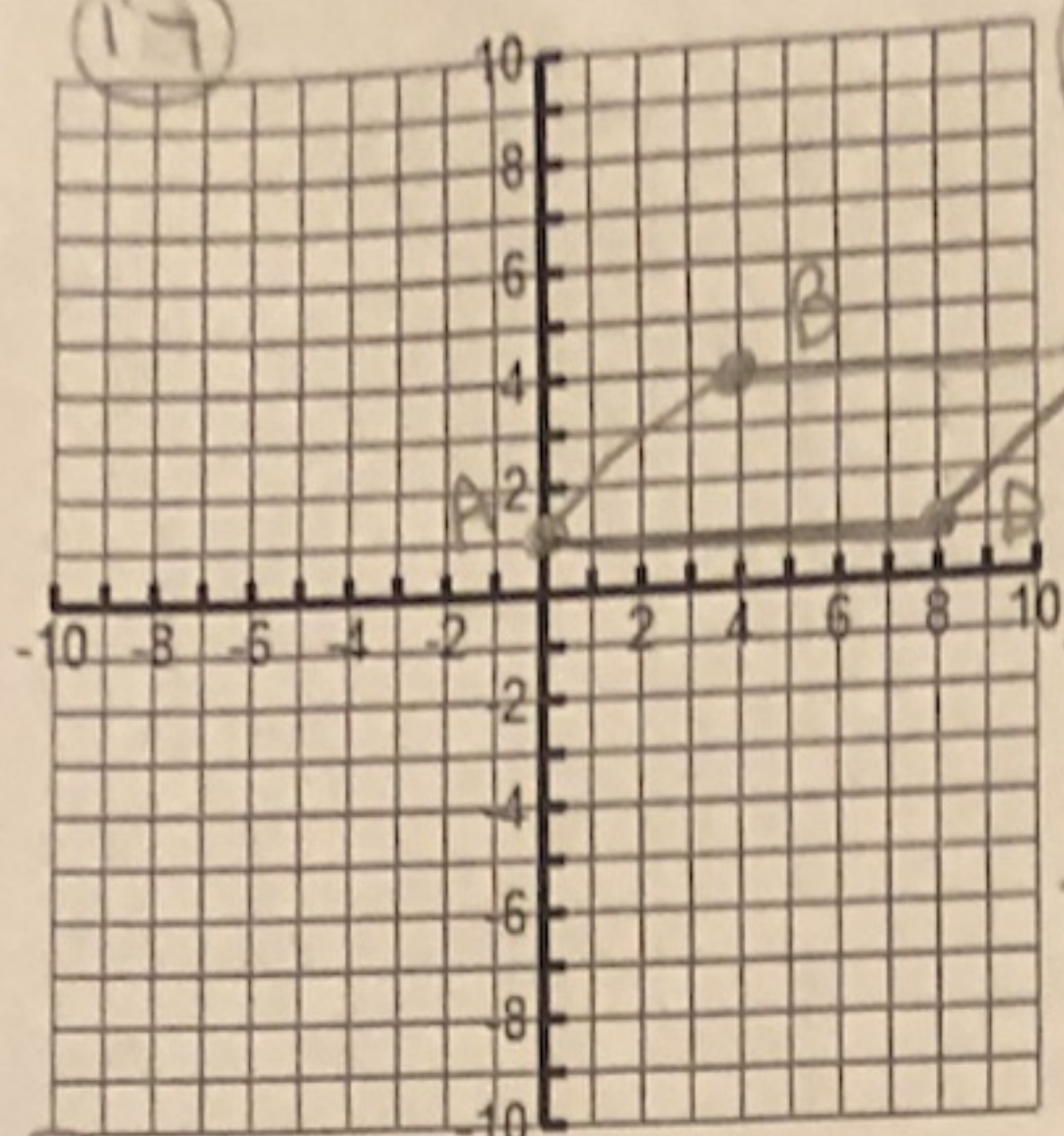
(15) $3x + 5 = 5x - 9$
 $14 = 2x$ $x = 7$

(14) $2x + 3 = x + 7$
 $x = 4$

(16) $6x = 3x + 2$
 $3x = 2$ $x = \frac{2}{3}$

7.3 D3 HW

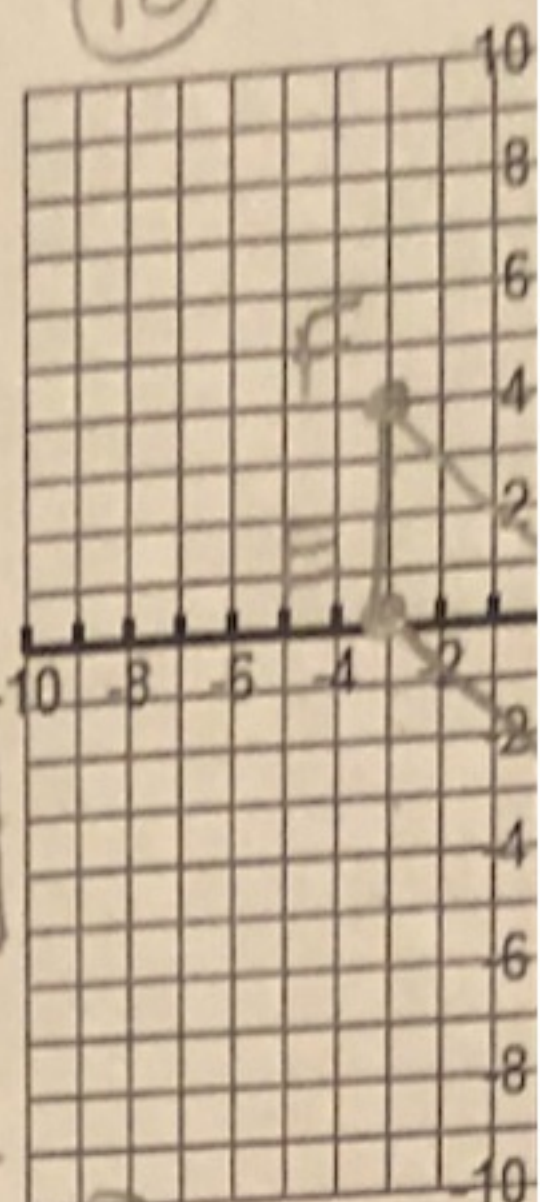
17



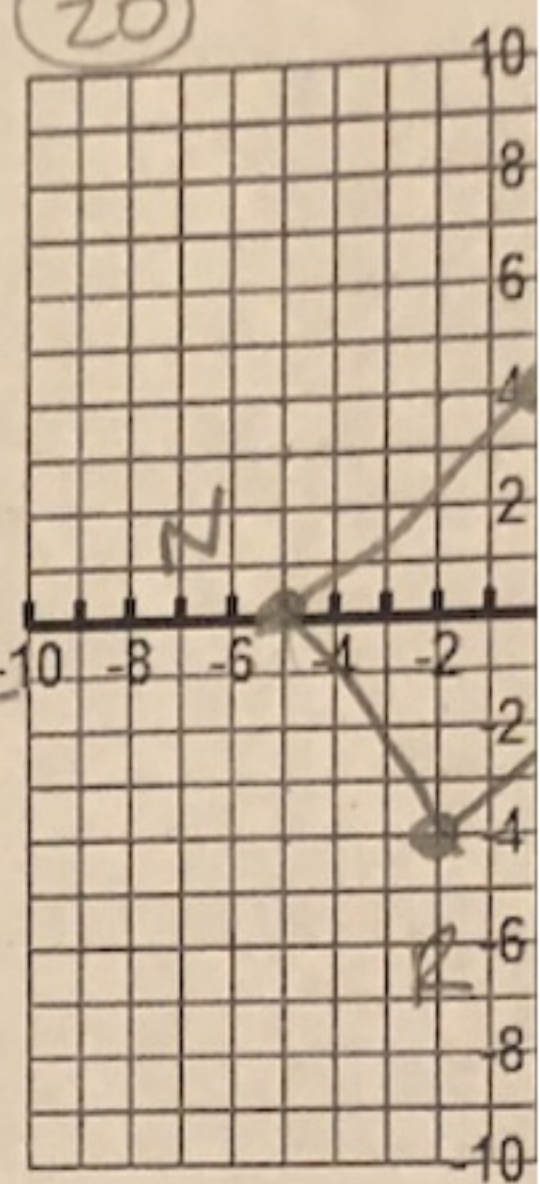
yes
□

Slopes
 $\overline{AB} m = \frac{3}{4}$
 $\overline{DC} m = \frac{3}{4}$
 $\overline{BC} m = 0$
 $\overline{AD} m = 0$

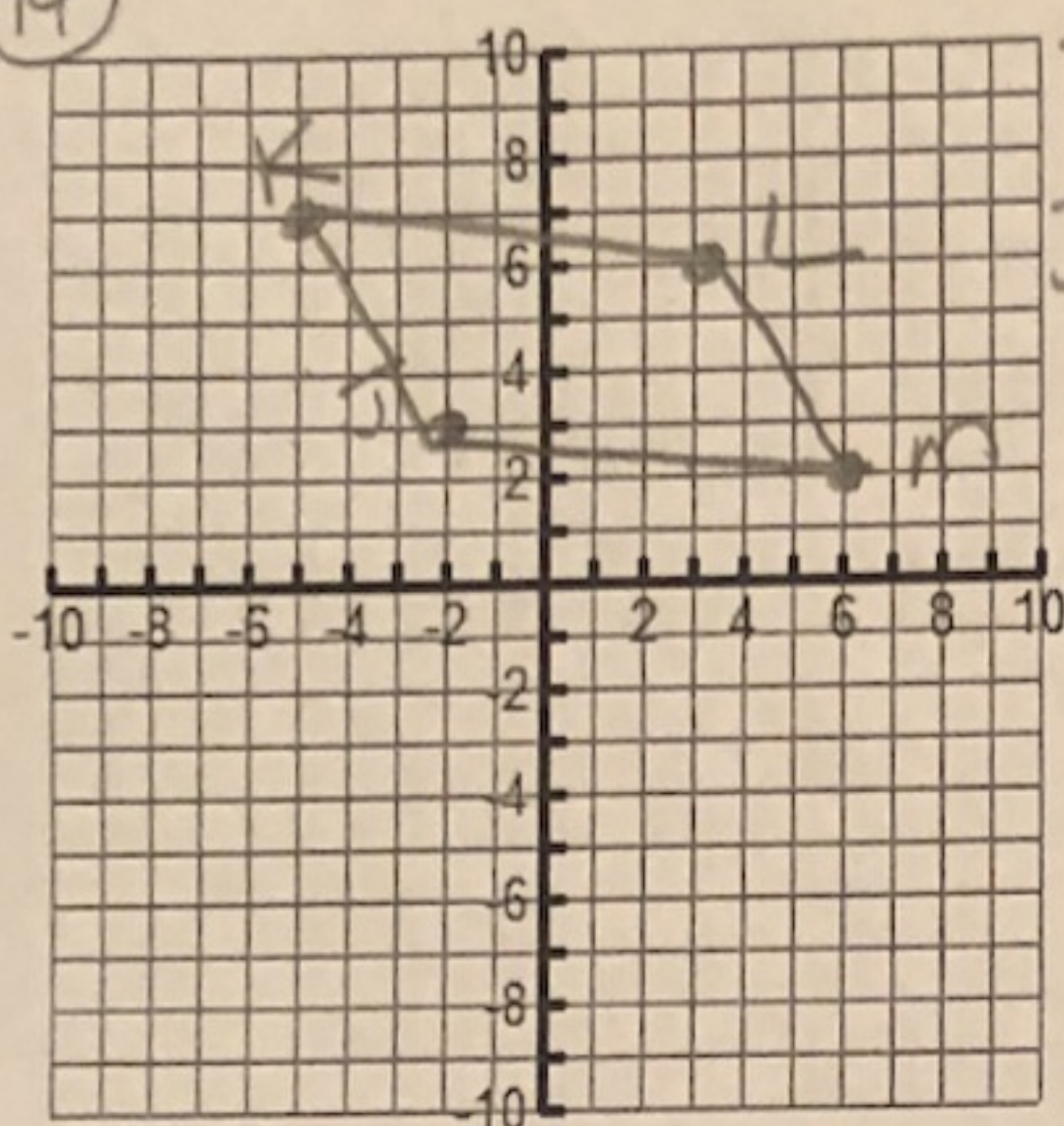
18



20



19



$\overline{KL} m = -\frac{1}{8}$
 $\overline{JM} m = -\frac{1}{8}$
 $\overline{KN} m = \frac{4}{3}$
 $\overline{LM} m = -\frac{4}{3}$

