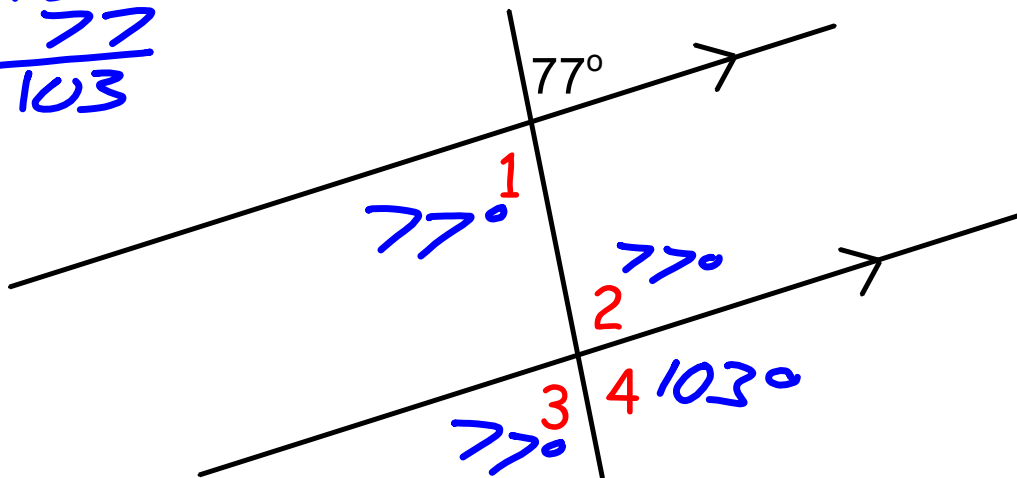


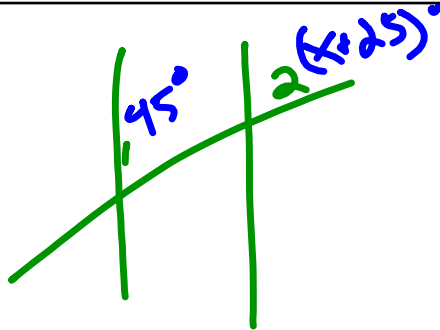
Warm up:

Solve for the missing angles.

$$\begin{array}{r} 180 \\ - 77 \\ \hline 103 \end{array}$$

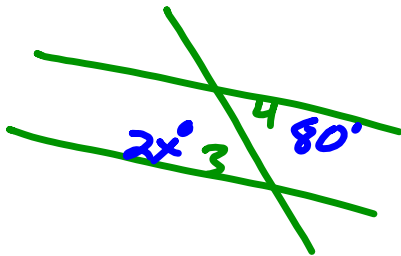


Q8



$$\begin{array}{r} x + 25 = 45 \\ - 25 \quad - 25 \\ \hline x = 20 \end{array}$$

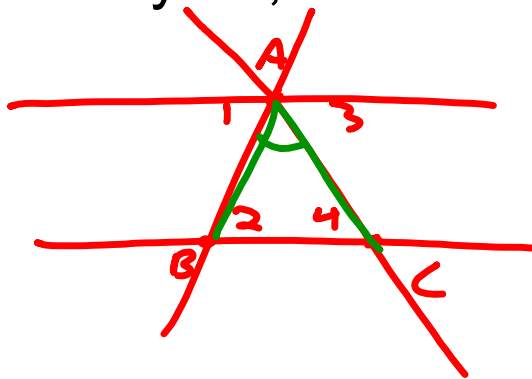
Q9



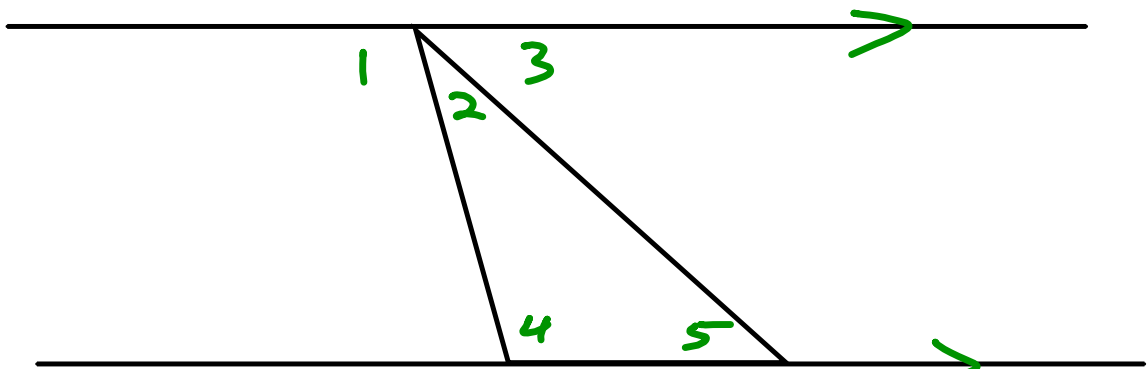
$$\begin{array}{r} 2x = 80 \\ \frac{2x}{2} = \frac{80}{2} \\ \hline x = 40 \end{array}$$

In green books...

pg. 312/Activity #1, answer questions 1-5



Angle sum of a triangle (proof)

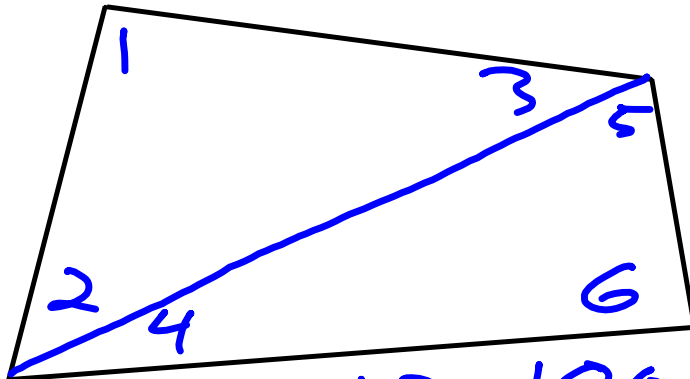


$\angle 1 \cong \angle 4$ alternate interior angles
 $\angle 3 \cong \angle 5$ alternate interior angles
 $m\angle 1 + m\angle 2 + m\angle 3 = 180^\circ$ straight angle
 $m\angle 4 + m\angle 2 + m\angle 5 = 180^\circ$ substitution

✓

proof - a mathematical argument that demonstrates the truth of a given proposition

Prove that the angle sum of a quadrilateral is 360 degrees



$$m\angle 1 + m\angle 2 + m\angle 3 = 180^\circ$$

$$m\angle 4 + m\angle 5 + m\angle 6 = 180^\circ$$

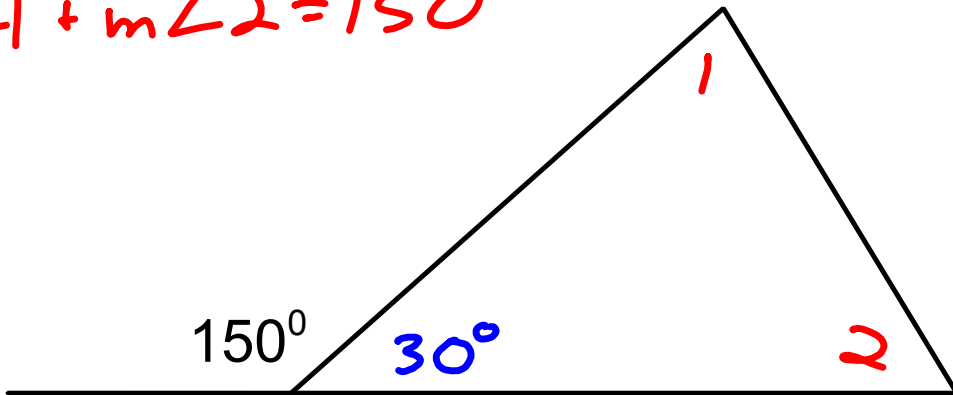
angle sum
of n Δ

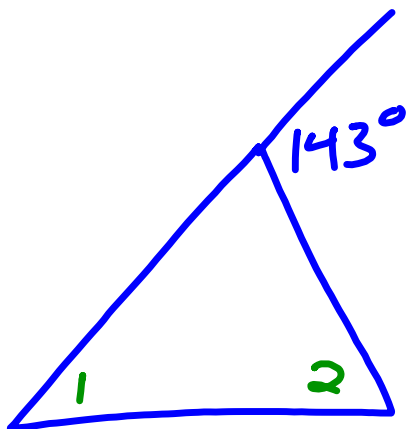
angle sum
of n Δ

HW Solutions

Exterior Angle Theorem

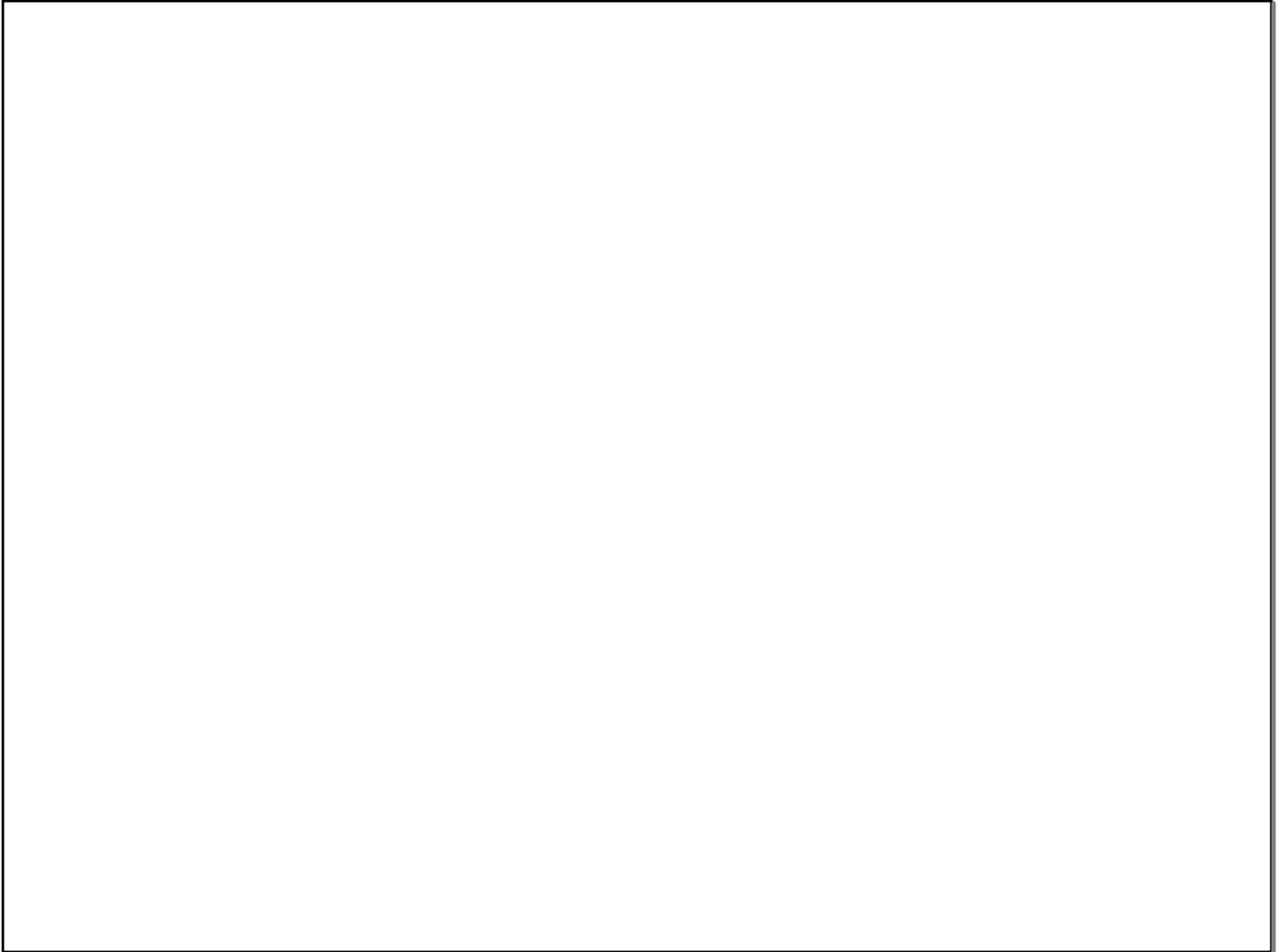
$$m\angle 1 + m\angle 2 = 150^\circ$$





$$m\angle 1 + m\angle 2 = 143^\circ$$

 <http://www.mathopenref.com/triangleextangletheorem.html>



$$Q1 \quad 4\text{cm} \times 5\text{cm}$$

$$2\text{cm} : 3\text{cm}$$

$$\frac{2}{3} = \frac{4}{x}$$

$$2x = 12$$

$$x = 6\text{cm}$$

$$\frac{2}{3} = \frac{5}{x}$$

$$2x = 15$$

$$x = 7.5\text{cm}$$

$$\frac{3}{5} = \frac{x}{6}$$

$$5x = 18$$

$$x = 3.6$$

$$\frac{3}{5} = \frac{x}{7.5}$$

$$5x = 22.5$$

$$x = 4.5$$

$$3.6\text{cm} \times 4.5\text{cm}$$

⑨ 15 in \times 24 in

$$\frac{2}{17} \times \frac{15}{x}$$

$$2x = 255$$

$$x = 127.5$$

$$\frac{2}{17} = \frac{24}{x}$$

$$2x = 408$$

$$x = 204$$

$$127.5 \text{ ft} \times 204 \text{ ft}$$

$$26010 \text{ ft}^2$$

⑤ $\frac{6}{33} \overset{3}{\cancel{=}} \frac{8}{44}$

$264 = 264$

yes

⑦ $\frac{32}{12} \overset{4}{\cancel{=}} \frac{40}{x}$

$32x = 480$

$x = 15$

15 min

23

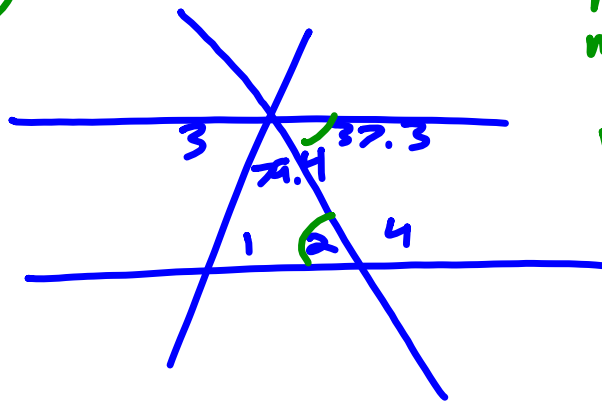
$$y = kx$$

↑

9.5

pg. 700-701/4, 5, 8, 9, 11
(on Google Classroom)

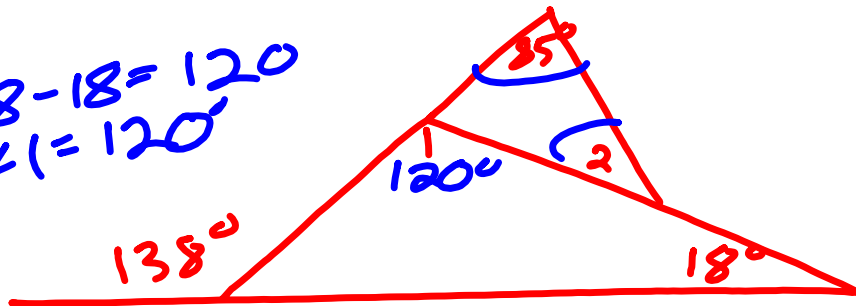
(4) (5)



$m\angle 1 = 63.3^\circ$
 $m\angle 2 = 37.3^\circ$
 $m\angle 3 = 63.3^\circ$
 $m\angle 4 = 142.7^\circ$

(5)

$$138 - 18 = 120$$
$$m\angle 1 = 120^\circ$$



$$120 - 85 = 35$$
$$m\angle 2 = 35^\circ$$

