11 Alex's distance from home is represented by the equation D = -0.5t + 300, where D represents his distance from home, in kilometres, and t represents time, in minutes.

How long will it take Alex to reach a distance of 182 km from home?

236 minutes

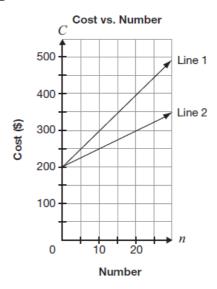
209 minutes

64 minutes

59 minutes

$$18\tilde{a}_{=}^{30}$$
 - 0.5t $\frac{300}{300}$ - $\frac{118}{-0.5}$ - 0.5t $\frac{300}{-0.5}$ - 0.5t $\frac{300}{-0.5}$ + = 236

12 Two lines are shown below.



Which of the following describes a difference between Line 1 and Line 2?

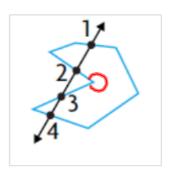
- Line 2 has a larger initial cost.
- Line 1 has a larger initial cost.
- Line 2 has a greater rate of change. Line 1 has a greater rate of change.

7.2 - Angle Properties of Polygons

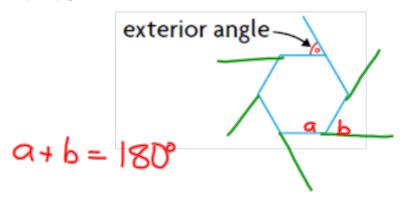
Convex Polygon - A polygon with every interior angle less than 180°; any straight line through it crosses, at most,

two sides.

Concave Polygon - A polygon with at least one interior angle greater than 180°; a straight line through it may cross more than two sides.



Exterior Angle - The angle formed by extending a side of a convex polygon.



Key Ideas

- 1. The sum of the exterior angles of any regular convex polygon is 360°.
- 2. An exterior angle and its adjacent interior angle are supplementary; they add up to 180°.

Example One

What is the sum of the exterior angles in a regular octagon? What is the measure of each exterior angle in a regular octagon?

Example Two

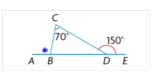
What is the measure of each exterior angle in a regular

11-gon?



Example Three

Determine the measure of <CBA.



Complete: p. 394 - 395 #1 - 3, 5, 7, 8.

e°=
$$|80-35|$$
 h°= $|80-73°|$
= $|45°|$ - $|07°|$
Sum of Interior Angles = $(n-2) \times |80|$
= $|6-2| \times |80|$
= $|140|$ = $|140|$
= $|140|$ = $|140|$
9° = $|80-1|49|$ = $|140|$
= $|140|$ = $|140|$