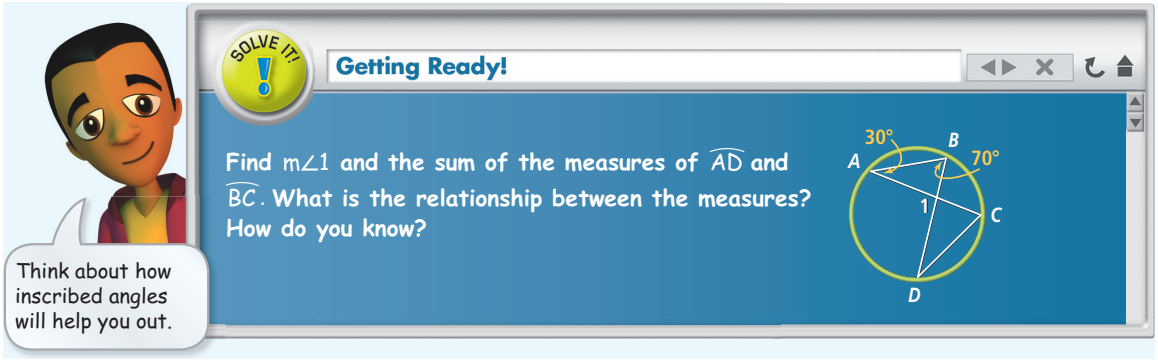
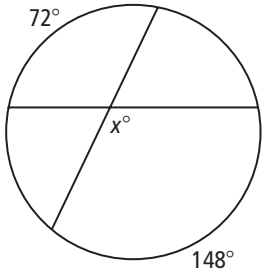
12-4 Solve It!

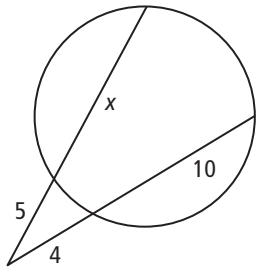


12-4 Lesson Quiz

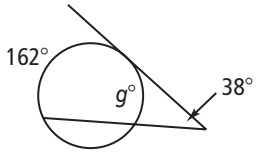
1. What is the value of the variable?



2. Do you UNDERSTAND? Find the value of the variable. If the answer is not a whole number, round to the nearest tenth.



3. What is the value of g?



Answers

Solve It!

$m\angle 1 = \frac{1}{2}(m\overset{\frown}{AD} + m\overset{\frown}{BC})$.
Sample explanation:
$m\angle 1 = 100$ (Exterior $\angle$ Thm.);
$m\angle B = \frac{1}{2}m\overset{\frown}{AD}$, so
$m\overset{\frown}{AD} = 2m\angle B = 140$;
$m\angle A = \frac{1}{2}m\overset{\frown}{BC}$, so
$m\overset{\frown}{BC} = 2m\angle A = 60$; $m\overset{\frown}{AD} + m\overset{\frown}{BC} = 140 + 60 = 200$;
$m\angle 1 = \frac{1}{2}(m\overset{\frown}{AD} + m\overset{\frown}{BC})$

Lesson Quiz

1. 110
2. 6.2
3. 86