MODULE 11 MIXED REVIEW

6A/6B Review
#312 / Back #425

Assessment Readiness

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1. In the diagram, lines *a* and *b* are parallel and lines *p* and *q* are parallel. Look at each pair of angles. Are the angles congruent?

Select Yes or No for A–C. *Justification*

A. ∠1 and ∠2 *corresponding*   ● Yes   ○ No
B. ∠3 and ∠4 *alternate interior*   ● Yes   ○ No
C. ∠5 and ∠6   ○ Yes   ● No

2. The variables *x* and *y* are related proportionally, and when *x* = 18, *y* = 12.

Choose True or False for each statement.

SKIP ②

A. When *x* = 1, *y* = 5.   ○ True   ○ False
B. When *x* = 2, *y* = 18.   ○ True   ○ False
C. When *x* = 63, *y* = 42.   ○ True   ○ False

3. An artist is designing a triangular pane of glass for a stained glass window, as shown in the diagram. Given that ∠ABC is an exterior angle, what is the measure of each interior angle of the triangle? Explain your reasoning.

Solve using equations (9) Show all steps

Two remote interior angles sum = exterior angle
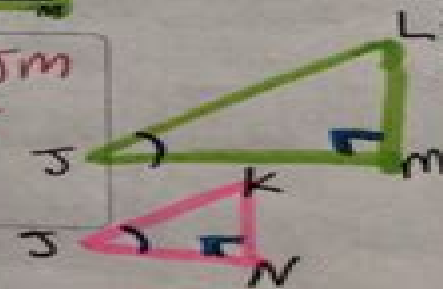
① $\angle C + \angle D = \angle CBA$
$x = 40°$

② $\angle C = 80°$
③ $\angle CBD = 60°$
④ $\angle D = 40°$

4. The diagram shows several of the boards that form part of the frame of a roof. Is △JKN similar to △JLM? Explain how you know.

Yes, △KJN is similar to △LJM because they have two pairs of congruent angles: ∠J ≅ ∠J
∠J ≅ ∠J
∠N ≅ ∠M
↑ congruent

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