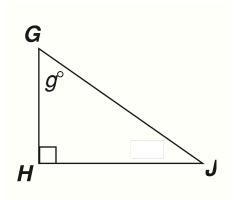
Gillespie

Course 3: Learning Check Ch2b

Rational Numbers

Directions: When working each of the following questions, be sure to show all work.

- 1) If $m \angle J = 30$, what is the value of g° ?
 - a) 50
 - b) 60
 - c) 70
 - d) 120



- 2) Quadrilateral $VWXY \cong JKLM$. Find c
 - a) undefined
 - b) 5
 - c) 15
 - d) 17

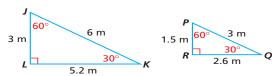
$$V W J K$$

$$85^{\circ} 0 a + 8 50^{\circ} 0 4$$

$$Y 30 X 6b A$$

- 3) Dilate the figure's coordinates A(6, -3); B(3, -6); C(12, -9); D(9, -3); by a scale factor of $\frac{1}{3}$. What are the vertices of the image?
 - a) A'(2,-1); B'(1,-2); C'(4,-3); D'(3,-1)
 - b) A'(-1,2); B'(-2,1); C'(-3,4); D'(-1,3)
 - c) A'(1,2); B'(2,1); C'(3,4); D'(1,3)
 - d) A'(2,1); B'(1,2); C'(4,3); D'(3,1)

- 4) Determine whether the triangles are similar by angle-angle similarity.
 - a) Yes; at least two angles are congruent
 - b) Yes; all angles add up to 180°



- c) No; at least two angles need to be congruent
- d) No; angle angle similarity is fake

- 5) Use the similar triangles to find the height of the tree.
 - a) 3 ft
 - b) 7 *ft*
 - c) 11 ft
 - d) 21 ft

