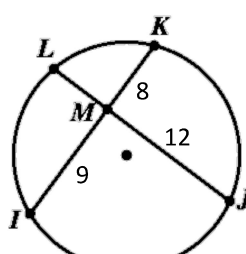


Algebra and Geometry Review 7

<p>1. Solve for n.</p> $\frac{4}{x} = \frac{x-8}{5}$	<p>2. If one leg of a right triangle has a length of 12 and the hypotenuse has a length of 18, how long is the other leg? (Write your answer in terms of a simplified radical.)</p>
<p>3. Solve the equation for y.</p> $2y + 7x = 12$	<p>4. If $\tan \theta = \frac{3}{4}$, what is $\sin \theta$?</p>
<p>5. The variables m and n are inversely proportional. When $m = 12$, $n = 7$. If $m = 4$, what is n?</p>	<p>6. If the midpoint of a segment is $(2, -1)$ and one endpoint has the coordinates $(7, 4)$, what are the coordinates of the other endpoint?</p>
<p>7. You have the number 10 through 99 inclusive written on slips of paper in a bag. What is the probability that you will pull out a number that is a multiple of 5?</p>	<p>8. Find the length of \overline{LM}.</p> 
<p>9. Solve by factoring.</p> $2x^2 - x - 6 = 0$	<p>10. Given that $\overline{BD} \parallel \overline{AE}$, find the length of \overline{BD}.</p> 