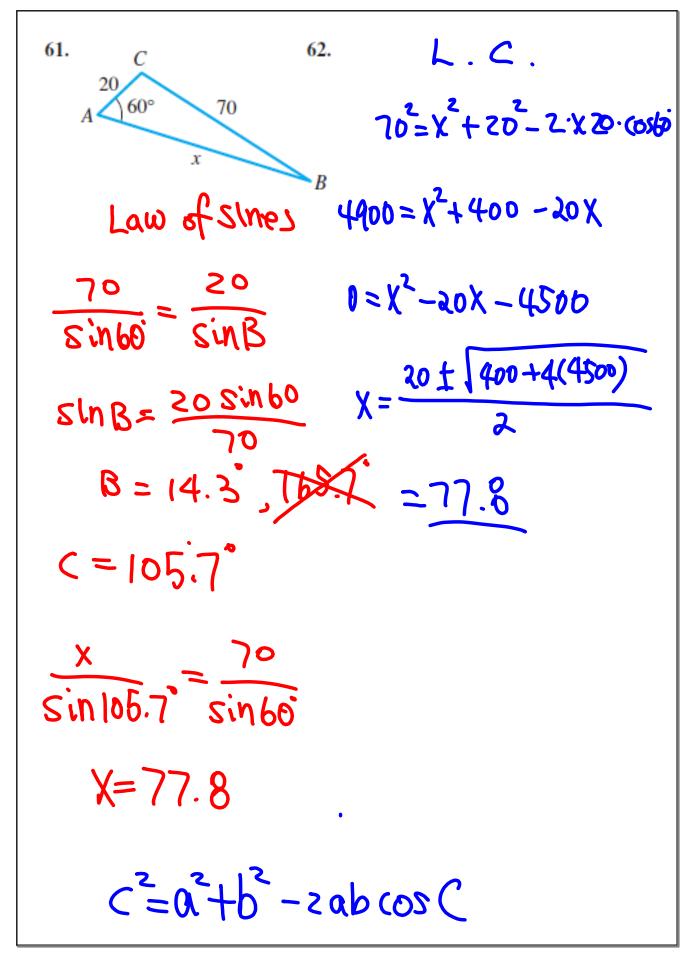
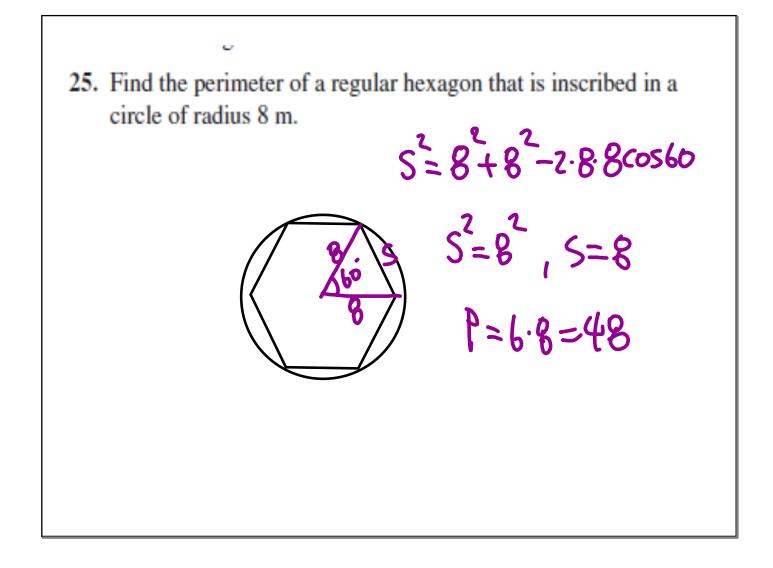
13. A potter's wheel with radius 8 in. spins at 150 rpm. Find the angular and linear speeds of a point on the rim of the wheel. ang. Sp 150 rev Imin 8 in. 150 rev 27 min (rev = 3007/min $C = 2\pi\Gamma$ $=16\pi$ 300T +50 bet 16 Th in sec 0 Kø Sec ly 40th In/sec





27. As viewed from the earth, the angle subtended by the full moon is 0.518°. Use this information and the fact that the distance AB from the earth to the moon is 236,900 mi to find the radius of the moon. 0.518° 236900+ $sin(.259) = \frac{r}{236900tr}$ $sln(.259) \cdot 236900 = (1 - sln.259)r$ sin(259).236900 1- sin(.259

