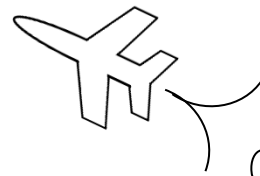


MAth on the Fly!

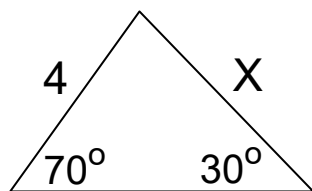


NAME: _____ DATE: _____

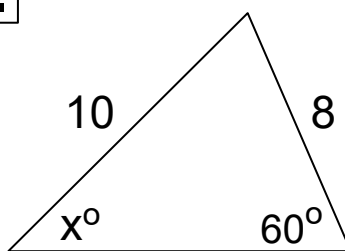
The Law of Sines

Find the missing side or angle in each problem.

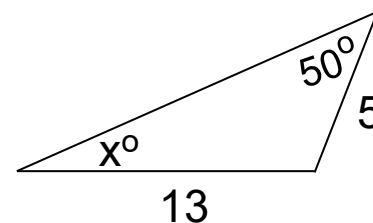
1.



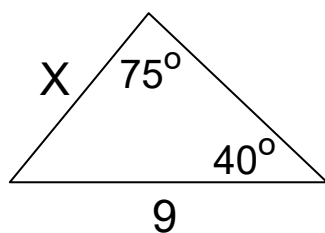
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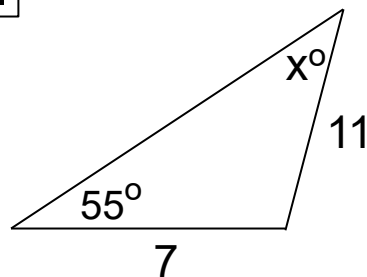
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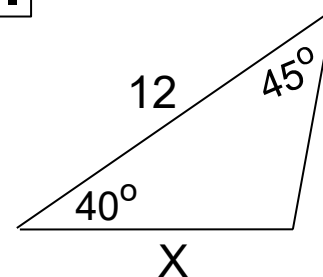
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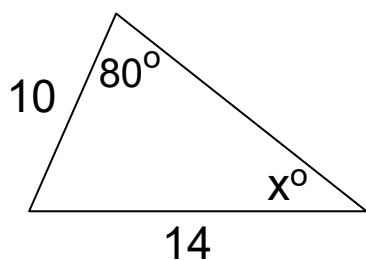
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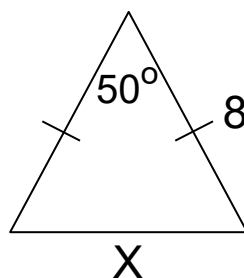
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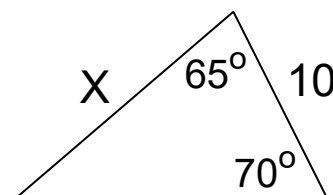
7.



8.



9.



SOLUTIONS

$$1. \quad x = \frac{4\sin 70^\circ}{\sin 30^\circ} \approx 7.52$$

$$2. \quad \angle x = \sin^{-1}\left(\frac{8\sin 60^\circ}{10}\right) \approx 43.9^\circ$$

$$3. \quad \angle x = \sin^{-1}\left(\frac{5\sin 50^\circ}{13}\right) \approx 17.1^\circ$$

$$4. \quad x = \frac{9\sin 40^\circ}{\sin 75^\circ} \approx 5.99$$

$$5. \quad \angle x = \sin^{-1}\left(\frac{7\sin 55^\circ}{11}\right) \approx 31.4^\circ$$

$$6. \quad x = \frac{12\sin 45^\circ}{\sin 95^\circ} \approx 8.52$$

$$7. \quad \angle x = \sin^{-1}\left(\frac{10\sin 80^\circ}{14}\right) \approx 44.7^\circ$$

$$8. \quad x = \frac{8\sin 50^\circ}{\sin 65^\circ} \approx 6.76$$

$$9. \quad x = \frac{10\sin 70^\circ}{\sin 45^\circ} \approx 13.29$$