



MasterMath

GEOMETRY

Parallel Lines, Transversals & Similar Triangles





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Parallel Lines, Transversals & Similar Triangles



Parallel Lines

Alternating Interior Angles

Parallel Lines, Transversals & Similar Triangles

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Parallel Lines

Alternating Interior Angles

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Similar Triangles

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Similar Triangles

$\angle a = \angle x$
 $\angle b = \angle y$
 $\angle c = \angle z$

Side A - Side X
Side B - Side Y
Side C - Side Z

Parallel Lines, Transversals & Similar Triangles

You try it!
Find x

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You try it!
Find x

$180^\circ - 33^\circ = 147^\circ$
 33°
 $x + 7^\circ$

Parallel Lines, Transversals & Similar Triangles

You try it!
Find x

52°
 38°
 x°

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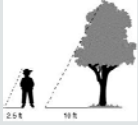
You try it!
Find x
Find Corresponding Angles

52°
 38°
 38°
 x°

Parallel Lines, Transversals & Similar Triangles

You try it!

The sun casts a shadow of both the tree and the boy. If the boy is 5' high, how tall is the tree?



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You try it!

The sun casts a shadow of both the tree and the boy. If the boy is 5' high, how tall is the tree?

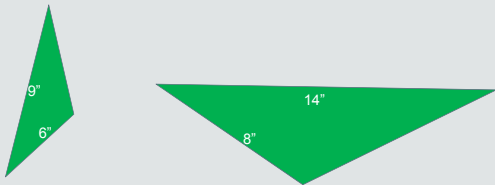


$$\frac{10'}{2.5'} = \frac{x}{5'}$$
$$\frac{5 \cdot 10}{2.5} = \frac{5 \cdot x}{5}$$
$$\frac{50}{2.5} = x$$
$$20' = x$$

Parallel Lines, Transversals & Similar Triangles

You try it!

Are these triangles similar?



Parallel Lines, Transversals & Similar Triangles

You try it!
Are these triangles similar?

$14 \div 9 = 1.5555 = 155\%$
 $8 \div 6 = 1.3333 = 133\%$

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You try it!

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