

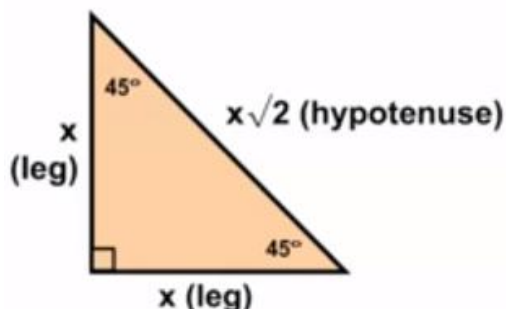
UNIT 6
ASSIGNMENT #7

GUIDED NOTES FOR VIDEO #1
Solving Problems for a $45^\circ - 45^\circ - 90^\circ$

Screen #1

Special Right Triangles - Part 2

$45^\circ - 45^\circ - 90^\circ$



Angle - Side Ratios

$$\begin{array}{ccc} 45^\circ & - & 45^\circ & - & 90^\circ \\ \updownarrow & & \updownarrow & & \updownarrow \\ x & - & x & - & x\sqrt{2} \end{array}$$

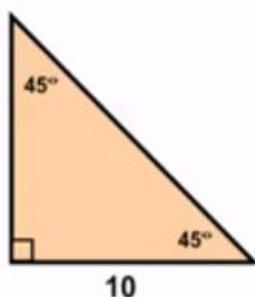
Screen #2

Special Right Triangles - Part 2

$45^\circ - 45^\circ - 90^\circ$

Easy

Ex 1) - Find the length of the missing sides.



Angle - Side Ratios

$$\begin{array}{ccc} 45^\circ & - & 45^\circ & - & 90^\circ \\ \updownarrow & & \updownarrow & & \updownarrow \\ x & - & x & - & x\sqrt{2} \end{array}$$

- 1) Label sides opposite angles.
- 2) Solve for 'x'.
- 3) Substitute value of 'x' on all sides.

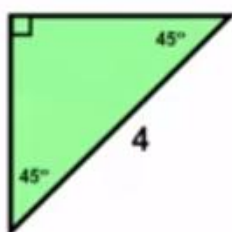
Screen #3

Special Right Triangles - Part 2

$45^\circ - 45^\circ - 90^\circ$

Hard

Ex 2) - Find the length of the missing sides.



Angle - Side Ratios

$$\begin{array}{ccc} 45^\circ & - & 45^\circ & - & 90^\circ \\ \updownarrow & & \updownarrow & & \updownarrow \\ x & - & x & - & x\sqrt{2} \end{array}$$

- 1) Label sides opposite angles.
- 2) Solve for 'x'.
- 3) Substitute value of 'x' on all sides.

Screen #4

Special Right Triangles - Part 2

$45^\circ - 45^\circ - 90^\circ$

Med.

Ex 3) - Find the length of the missing sides.



Angle - Side Ratios

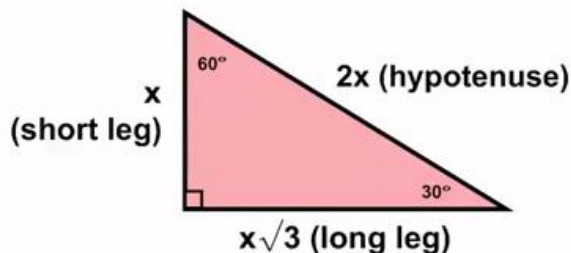
$$\begin{array}{ccc} 45^\circ & - & 45^\circ & - & 90^\circ \\ \updownarrow & & \updownarrow & & \updownarrow \\ x & - & x & - & x\sqrt{2} \end{array}$$

- 1) Label sides opposite angles.
- 2) Solve for 'x'.
- 3) Substitute value of 'x' on all sides.

Special Right Triangles - Part 3

$30^\circ - 60^\circ - 90^\circ$

Screen #1



Angle - Side Ratios

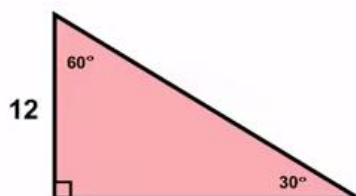
$$\begin{array}{ccc} 30^\circ & - & 60^\circ & - & 90^\circ \\ \updownarrow & & \updownarrow & & \updownarrow \\ x & - & x\sqrt{3} & - & 2x \end{array}$$

Screen #2

Special Right Triangles - Part 3

$30^\circ - 60^\circ - 90^\circ$

Ex 1) - Find the length of the missing sides.



Angle - Side Ratios

$$\begin{array}{ccc} 30^\circ & - & 60^\circ & - & 90^\circ \\ \updownarrow & & \updownarrow & & \updownarrow \\ x & - & x\sqrt{3} & - & 2x \end{array}$$

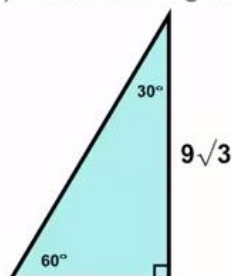
- 1) Label sides opposite angles.
- 2) Solve for 'x'.
- 3) Substitute value of 'x' on all sides.

Screen #3

Special Right Triangles - Part 3

$30^\circ - 60^\circ - 90^\circ$

Ex 2) - Find the length of the missing sides.



Angle - Side Ratios

$$\begin{array}{ccc} 30^\circ & - & 60^\circ & - & 90^\circ \\ \updownarrow & & \updownarrow & & \updownarrow \\ x & - & x\sqrt{3} & - & 2x \end{array}$$

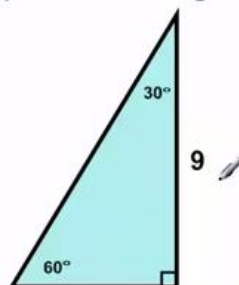
- 1) Label sides opposite angles.
- 2) Solve for 'x'.
- 3) Substitute value of 'x' on all sides.

Screen #4

Special Right Triangles - Part 3

$30^\circ - 60^\circ - 90^\circ$

Ex 3) - Find the length of the missing sides.



Angle - Side Ratios

$$\begin{array}{ccc} 30^\circ & - & 60^\circ & - & 90^\circ \\ \updownarrow & & \updownarrow & & \updownarrow \\ x & - & x\sqrt{3} & - & 2x \end{array}$$

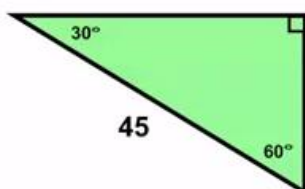
- 1) Label sides opposite angles.
- 2) Solve for 'x'.
- 3) Substitute value of 'x' on all sides.

Screen #5

Special Right Triangles - Part 3

$30^\circ - 60^\circ - 90^\circ$

Ex 4) - Find the length of the missing sides.



Angle - Side Ratios

$$\begin{array}{ccc} 30^\circ & - & 60^\circ & - & 90^\circ \\ \updownarrow & & \updownarrow & & \updownarrow \\ x & - & x\sqrt{3} & - & 2x \end{array}$$

- 1) Label sides opposite angles.
- 2) Solve for 'x'.
- 3) Substitute value of 'x' on all sides.