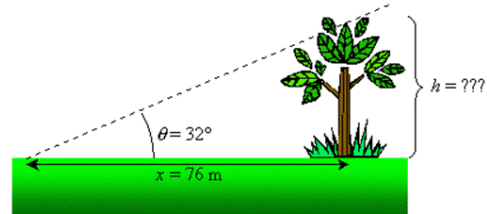


Show work for full credit.

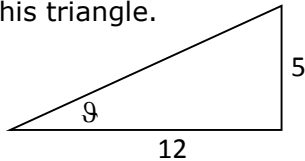
Complete all problems for extra practice. Check your work at the front of the board.

- 1) Angle: 135°
 Sketch the angle.
 Write its reference angle.
 Convert the angle to radians.

- 2) Calculate the height of the tree.



- 3) Write the six trigonometric ratios for this triangle.



- 4) $\frac{3\pi}{5}$

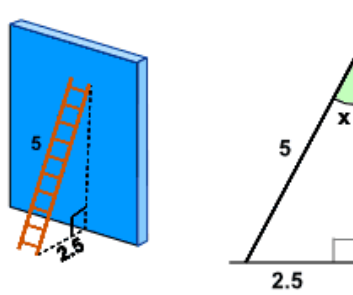
Convert the angle to degrees.
 Sketch the angle.
 Write its reference angle.

- 5) Angle: 210°
 Sketch the angle.
 Write its reference angle.
 Write the cosine and tangent of this angle.

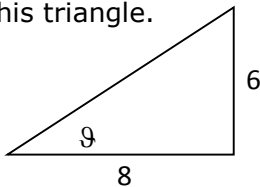
- 6) Graph $(3, -4)$.
 Write the six trigonometric ratios for this point.

7) Angle: 300°
 Sketch the angle.
 Write its reference angle.
 Convert the angle to radians.

8) Calculate the angle made by the ladder.



9) Write the six trigonometric ratios for this triangle.



10) $\frac{3\pi}{4}$
 Convert the angle to degrees.
 Sketch the angle.
 Write its reference angle.

11) Angle: 150°
 Sketch the angle.
 Write its reference angle.
 Write the sine and secant of this angle.

12) Graph $(-9, 40)$.
 Write the six trigonometric ratios for this point.