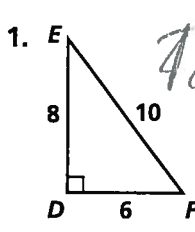


Practice 8-3

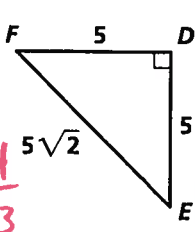
The Tangent Ratio

Write the tangent ratios for $\angle E$ and $\angle F$.



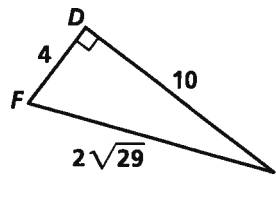
$\tan E = \frac{6}{8} = \frac{3}{4}$

$\tan F = \frac{8}{6} = \frac{4}{3}$



$\tan E = \frac{5}{5} = 1$

$\tan F = \frac{5}{5} = 1$



$\tan E = \frac{4}{10} = \frac{2}{5}$

$\tan F = \frac{10}{4} = \frac{5}{2}$

Find each missing value. Round your answers to the nearest tenth.

4. $\tan 46^\circ = \frac{?}{12}$

? = 12.4

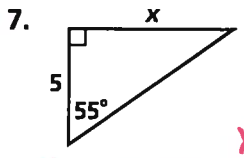
5. $\tan ? = \frac{3}{5}$

~~30~~ 31

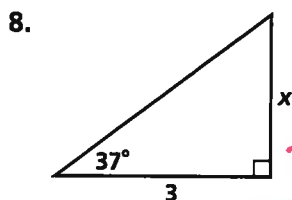
6. $\tan 12^\circ = \frac{3}{?}$

14.1

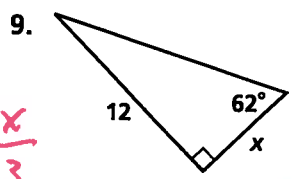
Find the value of x . Round your answers to the nearest tenth.



$\tan 55 = \frac{x}{5}$
 $x = 7.1$



$\tan 37 = \frac{x}{3}$
 $x = 2.3$



$\tan 62 = \frac{12}{x}$
 $x = 6.4$

To the nearest tenth, find the measure of the acute angle that the given line forms with a horizontal line.

10. $y = 5x + 3$



$\tan x = \frac{1}{5}$
 $x = 11.3$

11. $y = \frac{1}{2}x + 4$



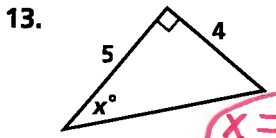
$\tan x = \frac{2}{1}$
 $x = 63.4$

12. $y = 3x - 6$

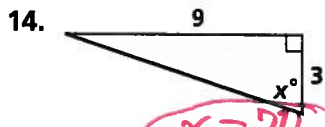


$\tan x = \frac{1}{3}$
 $x = 18.4$

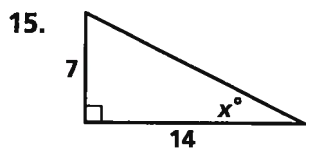
Find the value of x . Round your answers to the nearest degree.



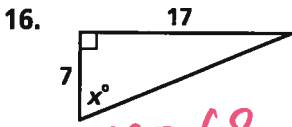
$x = 39$



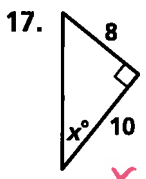
$x = 72$



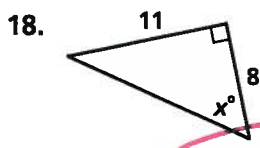
$x = 26.5$
 or 27



$x = 68$



$x = 38.7$
 or 39



$x = 54$

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