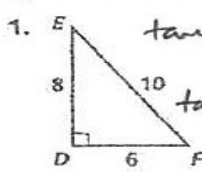
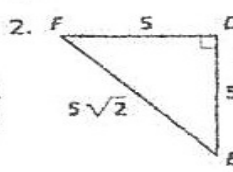


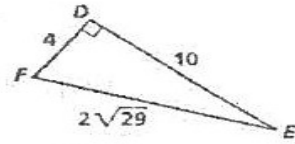
Express  $\tan E$  and  $\tan F$  as ratios.



$\tan E = \frac{3}{4}$   
 $\tan F = \frac{4}{3}$



$\tan E = 1$   
 $\tan F = 1$



$\tan E = \frac{2}{5}$   
 $\tan F = \frac{5}{2}$

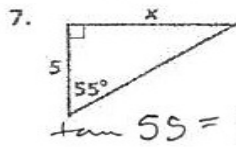
Find each missing value. Round your answer to the nearest tenth.

4.  $\tan 46^\circ = \frac{x}{12} \rightarrow 12.4$

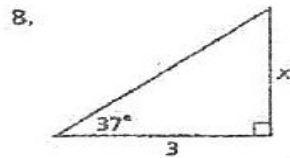
5.  $\tan 31^\circ = \frac{3}{x} \rightarrow 31.0$

6.  $\tan 12^\circ = \frac{3}{x} \rightarrow 14.1$

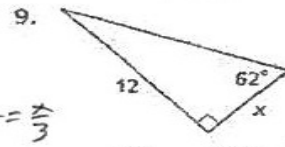
Find the value of  $x$ . Round your answer to the nearest tenth.



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



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



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

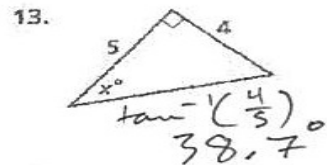
Find the measure of the acute angle that each line makes with a horizontal line. Round your answer to the nearest tenth.

10.  $y = 5x + 3 \rightarrow \tan^{-1}(5) = 78.7^\circ$

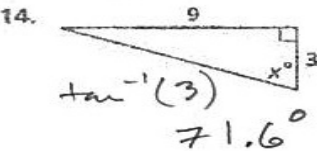
11.  $y = \frac{1}{2}x + 4 \rightarrow \tan^{-1}(\frac{1}{2}) = 26.6^\circ$

12.  $y = 3x - 6 \rightarrow \tan^{-1}(3) \approx 71.6^\circ$

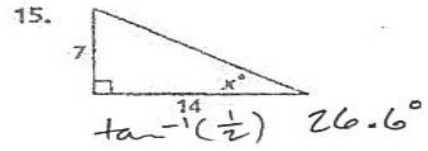
Find the value of  $x$ . Round your answer to the nearest degree.



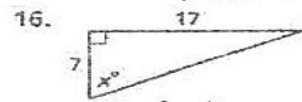
$\tan^{-1}(\frac{4}{5}) = 38.7^\circ$



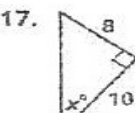
$\tan^{-1}(3) = 71.6^\circ$



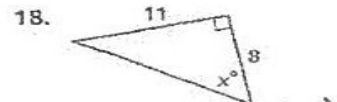
$\tan^{-1}(\frac{1}{2}) = 26.6^\circ$



$\tan^{-1}(\frac{7}{17}) = 67.6^\circ$



$\tan^{-1}(\frac{4}{5}) = 38.7^\circ$



$\tan^{-1}(\frac{11}{8}) = 54.0^\circ$