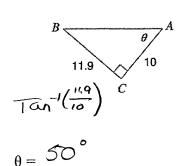
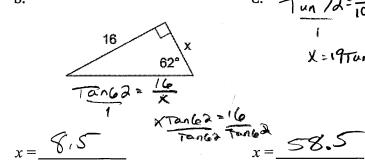
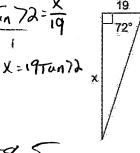
Answer each question completely. If you need to round, round to the nearest tenths.

1. Solve for the missing piece of the triangle.

a.







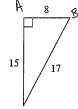
2. Find the area and the perimeter of the triangle.

Perimeter: 22.4.1

Tan 32 = X x = 8Tan 32



52-82 = c2 C=9,4

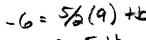


3.

$$TAN(C) = \frac{8}{5}$$

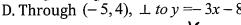
$$TAN(B) = \frac{15/8}{8/5}$$
 $Tan^{-1}(5/8)$
 $Tan^{-1}(5/8)$
 $Tan^{-1}(5/8)$
 $Tan^{-1}(5/8)$
 $Tan^{-1}(5/8)$
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 $Tan^{-1}(5/8)$

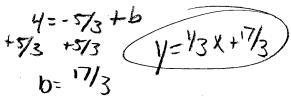
- 4. Write an equation of a line in slope-intercept form that satisfies the following situations.
- a. $m = \frac{5}{2}$, through (9, -6)



- -6= 55(9) +6 (1=5/2x-28.5
- C. Through (-4, 9), || to $y = -\frac{5}{6}x + 25$ M= -5/10

Through
$$(-5,4)$$
, $\pm to y = -3x - 8$



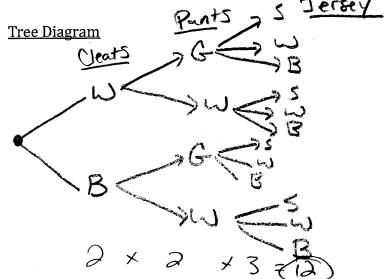


5. When doing probability, the word "OR" generally means to $H\Sigma$

P(A or B) = P(A) + P(B) Unless there is overlap, then you have to Subtract Overlap

The word "AND" generally means to Molfiply. $P(A \text{ and } B) = P(A) \cdot P(B)$

6. Ohio State is preparing for their Rose bowl game and have some options for their gear. They can choose between White(W) or Black(B) cleats, Grey (G) or White (W) pants, and Scarlett (S), White (W) or Black(B) Jerseys. Draw a tree diagram and list all of the possible outcomes.



<u>Outcomes</u>

7. You are rolling a 6 sided die and spinning a spinner that has 5 regions to land on (A,B,C,D,E)

a. P(rolling a 3 and D)

$$\frac{1}{6} \cdot \frac{1}{5} = \frac{1}{30}$$

b. P(Even and Vowel)

$$\frac{1}{2} \cdot \frac{2}{5} = \frac{2}{10} \left(\frac{2}{5} \right)$$

c. P(less than 4 and A or B)

$$\frac{1}{2} \cdot \frac{2}{5} = \frac{2}{5} = \frac{1}{5}$$

8. 15. A bag contains 2 red, 6 blue, 7 yellow, and 3 orange marbles. Once a marble is selected, it is not replaced. Find each probability if you select 1 at a time. 18

a. P(orange, orange)

$$\frac{3}{18} \cdot \frac{2}{17} = \frac{1}{15}$$

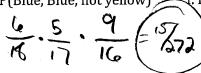
b. P(Blue, Red)

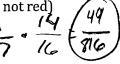
P(Blue, Red)
$$\frac{6}{18} \cdot \frac{2}{17} = \frac{3}{5}$$

$$\frac{1}{16} \cdot \frac{6}{17} \cdot \frac{3}{16} = \frac{2}{272}$$

d. P(Blue, Yellow, Red)

e. P(Blue, Blue, not yellow)





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