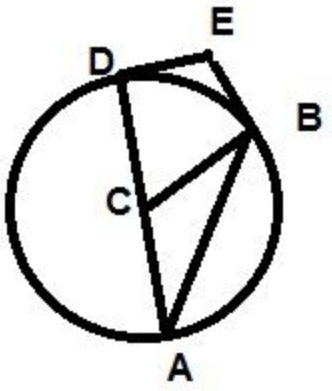
Remediation or Review Packet Test 12
Geometry(1-4)
Probability (5-8)

Name_____

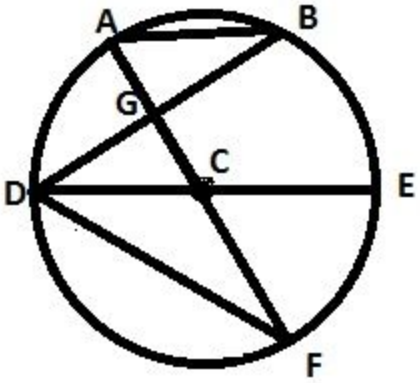
Review:(9-)

1. If the measure of arch DAB is 290, find the measure of the following.



m∠A= m∠BCD= m∠E=

2. If the measure of ∠F is 25 degrees find the following:



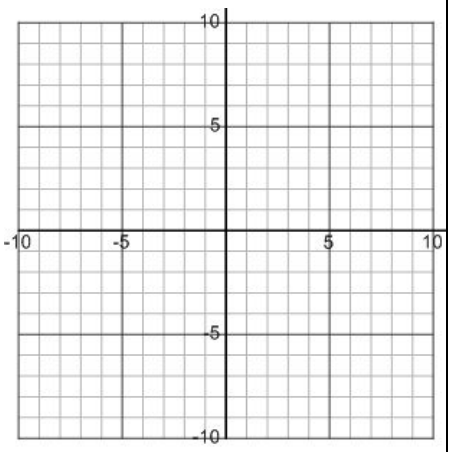
m∠ACD= m∠B=

3. Graph the following and then find the 4th vertices to make it a parallelogram.
(-2,4)(-1,0) (4,5) (,)

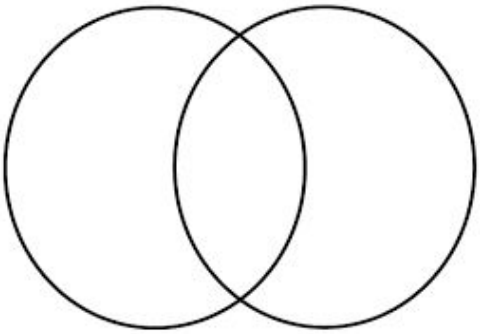
Katie thinks this parallelogram is also a rectangle. She is incorrect. How do you know?

What is the perimeter of the parallelogram?

Where do the diagonals cross?



4. If A = set of numbers from 1-50 that are multiples of 5 and B = set of numbers from 1 - 50 that are multiples of 4,



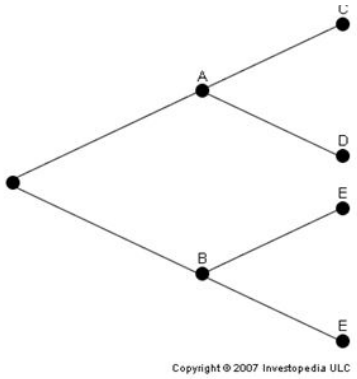
Find
$A \cup B$

Find $A \cap B$

5. Complete the tree diagram, and then answer the questions. You draw a marble out of a box, and then

6. You are curious what color shirt the girls and boys will like more that you are selling. Here is the data you collected.

without replacing you draw out another one.
The box contains 7 blue marbles and 3 yellow marbles.



What is the probability of not getting a blue marble?

What is the probability getting the same color marble?

What is P(Yellow|Yellow)

	Blue	Red	White	
Girl	18		57	
Boy		49	36	
	27	63		

What is the probability of a person in the survey liking the Blue shirt given it is a boy?

What is the probability of a person in the survey being a girl given they like the White Shirt?

A jar contains 4 chocolate chip cookies, 3 sugar cookies, and 2 oatmeal raisin cookies. Annie picks a cookie from the jar at random. She puts the cookie back in the jar and picks another one.

What is the probability that Annie picks a chocolate chip cookie the first time and a sugar cookie from the jar the second time?

(A) $\frac{8}{81}$

(B) $\frac{4}{27}$

(C) $\frac{1}{2}$

(D) $\frac{7}{9}$

7.

Paola has a bag that contains 1 green marble, 1 red marble, 1 blue marble, 1 pink marble, and 2 purple marbles. She takes out three marbles, one at a time, without replacing any of them.

What is the probability that two of the marbles drawn consecutively will be red then blue?

(A) $\frac{1}{30}$

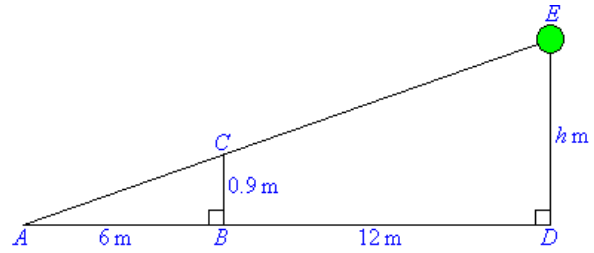
(B) $\frac{1}{15}$

(C) $\frac{1}{10}$

(D) $\frac{1}{5}$

8.

9. Solve the equation: $3x^2 - 27x + 100 = 6x + 10$



10.

Find ED.

If AE = 40, find AC.

11.

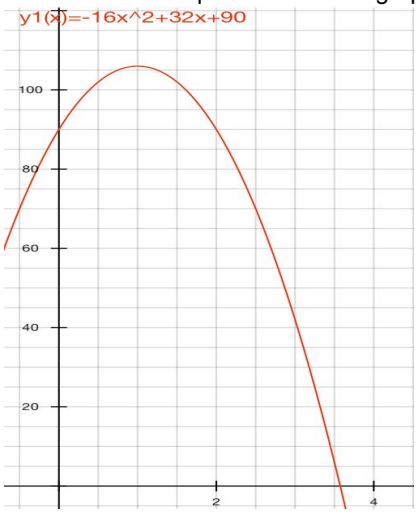
Select **all** the expressions that are equivalent to

$4^{\frac{3}{2}}$.

A $(4^2)^{\frac{1}{3}}$	B $(4^{\frac{1}{2}})^3$	C $\sqrt[3]{4^2}$
D $(\sqrt[3]{4})^2$	E 8	F $\sqrt{4^3}$
G $(4^3)^{\frac{1}{2}}$	H $(\sqrt{4})^3$	I $(4^{\frac{1}{3}})^2$

12.

The following is a ball launched off a platform (sec,ft). Choose all the correct interpretations of the graph:



A) The ball hits the ground at 3.6 seconds.
B) The ball reaches a maximum height of 106 ft.
C) The Ball has an initial velocity of 16 ft/sec.
D) The Range for this situation is [2,106]
E) The acceleration of the object is -16 m/sec^2.
F) The ball is launched from a platform 90 ft high.
G) The object is in the air for 3.2 seconds.
H) The object reaches its maximum height at 2 minutes.
I) The time to get to the max is 1 second.
J) The Domain of this situation is [0,3.6]

13.

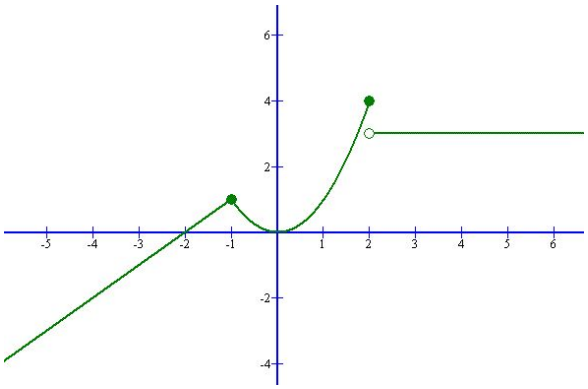
Xavier cannot walk from point A to point B because there is a pond in the way. Instead, he starts by walking at an angle of 30° from the direct path, then makes a 90° turn, and finally walks 40 feet to reach his destination.

If Xavier were able to take a direct path, how far would he walk?

Ⓐ 20 feet

Ⓑ $40\sqrt{2}$ feet

Ⓒ $40\sqrt{3}$ feet

Ⓓ 80 feet

14.Write the equations for the below piecewise graph.