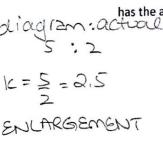
## FOM - Flashback #4

An 8" x 10" photograph was scaled by a factor or 5;2. Is this an enlargement or a reduction? What are the new dimensions? By what factor has the perimeter changed by? By what factor



has the area changed by?

diagram: actual NEWDM.

$$8 \times 2.5 = 20$$
 | ORIG. PER.

 $8 \times 2.5 = 20$  | NEW PER.

 $10 \times 2.5 = 25$  | ORIG. PER.

 $10 \times 2.5 = 20$  | NEW PER.

 $10 \times 2.5 = 25$  | ORIG. PER.

 $10 \times 2.5 = 20$  | NEW PER.

 $10 \times 2.5 = 25$  | ORIG. PER.

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 $10 \times 2.5 = 25$  | ORIG. PER.

 $10 \times 2.5 = 20$  | NEW PER.

 $10 \times 2.5 = 25$  | ORIG. PER.

 $10 \times 2.5 = 20$  | NEW PER.

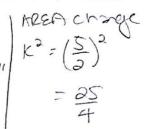
 $10 \times 2.5 = 25$  | ORIG. PER.

 $10 \times 2.5 = 20$  | NEW PER.

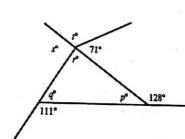
 $10 \times 2.5 = 25$  | ORIG. PER.

 $10 \times 2.5 = 20$  | NEW PER.

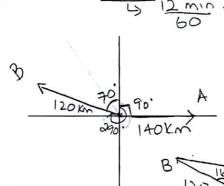
 $10 \times 2.5 = 25$  | ORIG. PER.



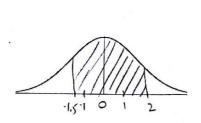
2. Determine the angles marked with letters and provide a reason for each.



3. Two aircraft, A and B, leave an airport at the same time. A flies on a course of 900 at 700 km/hr



Given a normal curve, shade in the area between the z-score of 2 and -1.5. Give the area as a decimal and as a percent. Label the diagram.





6.68%.
97.72-6.68

- 91,04% Riverside Math

- 5. Write the equation of a quadratic function in standard form with the following characteristics:
  - a) Vertex at (6,4)
  - b) Vertex of (3, -5) and opening down
  - c) Vertex at the origin
  - d) Opening up with no x intercept

a) 
$$y = (x - b)^2 + 4$$
  
b)  $y = -(x - 3)^2 - 5$   
c)  $y = \alpha^2$   
d)  $y = (x - a)^2 + 5$ 

6. Determine the roots of the equation 
$$2x^2 - 8x + 5 = 0$$
.  

$$x = -b \pm \sqrt{b^2 - 4ac} \qquad x = 8 \pm 2\sqrt{11}$$

$$= 8 \pm \sqrt{64 - 4(2)(5)} \qquad x = 4 \pm \sqrt{11}$$

$$= 212$$

$$x = 8 \pm \sqrt{44}$$

7. Graph the inequality 2x - y > 6 and x < 2List three possible solutions for this system and prove algebraically.

