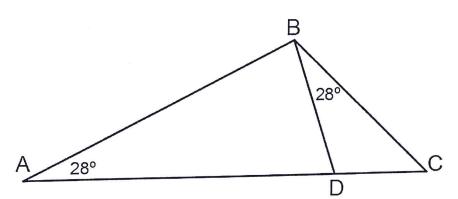
Wednesday, March 29, 2017 Bellwork Hon Alg 2

- 1. You are going away for a weekend to the cottage. You packed 3 pairs of shorts, 5 shirts, and 2 hats. How many different outfits can you make if an outfit consists of a pair of shorts, a shirt, and a hat?
- 2. You have four pieces of fruit to blend into a smoothie. But the blender can only hold three of the pieces of fruit. How many different smoothies can you make using three of the four pieces of fruit?
- 3. You have four framed pictures you would like to hang up in your house. One of your walls can hold only three pictures. How many ways can you arrange three of the four pictures on that wall?
- 4. $(x^2y^3)^{\frac{1}{2}}(x^2y^3)^{\frac{1}{2}} = x^{\frac{a}{3}}v^{\frac{a}{2}}$ If the equation above, where a is a constant, is true for all positive values of x and y, what is the value of a?
- A. 2
- B. 3
- C. 5
- D. 6

- 5. If the equation y = (x-6)(x+12) is graphed in the x-y plane, what is the x-coordinate of the parabola's vertex?
 - A. -6
 - B. -3
 - C. 3
 - D. 6

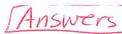


- 6. In the figure above, which of the following ratios has the same value as $\frac{AB}{BC}$?

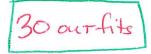
- B. $\frac{BC}{AC}$ C. $\frac{AD}{BD}$

151

Wednesday, March 29, 2017 Bellwork Hon Alg 2



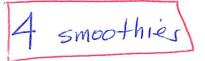
1. You are going away for a weekend to the cottage. You packed 3 pairs of shorts, 5 shirts, and 2 hats. How many different outfits can you make if an outfit consists of a pair of shorts, a shirt, and a hat?



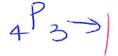
2. You have four pieces of fruit to blend into a smoothie. But the blender can only hold three of the pieces of fruit. How many different smoothies can you make using three of the four pieces of fruit?

Combination

$$4^{C}_{3} \longrightarrow$$



3. You have four framed pictures you would like to hang up in your house. One of your walls can hold only three pictures. How many ways can you arrange three of the four pictures on that wall?



4 3 > 24 arrangements

If the equation above, where a is a constant, is true for all positive values of x and y, what is the

value of a? A. 2 use B. 3 power $\{\chi^2 y^3\}^{1/2} = \chi y^{3/2}$ C. 5 power $\{\chi^2 y^3\}^{1/2} = \chi y^{3/2}$

28°

x2y3 = x 3y 9/2 ← exponents must be =

5. If the equation y = (x - 6)(x + 12) is graphed in the x-y plane, what is the x-coordinate of the parabola's vertex?

LOS $X = \frac{6+-12}{2}$ $= -\frac{6}{2}$ X = -3Hhis is also X-coord of the vertex

x-intercepts = 61-12

MABBURASTA

DABC ND BDC

6. In the figure above, which of the following ratios has the same value as $\frac{AB}{BC}$?



B. $\frac{BC}{AC}$ C. $\frac{AD}{BD}$ D. $\frac{DC}{BC}$

