- a) Model the above statement with a combined variation equation. Y varies directly with the cube of Z and inversely with the product of C and D 2. Write this combined variation in words:
- <u></u> Find the variation constant if Y=50 when Z=5, C=4, and D=10
- 0 Find the value of Y if Z=4, C=2, and D=5.
- 9 Find the value of D if Y=100, Z=2, and C=9.

a) These points form a direct variation relationship. Find the missing value

S

(8,4) & (20,?)

<u>o</u>

Find the missing value if these two points are part

of an inverse variation relationship

ALG 2 Bellwork
Tuesday January 6, 201

 $P = 5m^3n^2$

- square of r. Suppose that t varies directly with s and inversely with the
- a) How is the value of t changed when the value of s is doubled?
- b) How is the value of t changed when the value of r is doubled?

- Y varies directly with the cube of Z and inversely with the product of C and D.
- a) Model the above statement with a combined variation equation. 人 え う

b) Find the variation constant if Y=50 when Z=5, C=4, and D=10 \times (5) \times

(a)(h)

c) Find the value of Y if Z=4, C=2, and D=5. $Y = \frac{1/2}{(2)^2(5)} = \frac{1/2}{(2)^2(5)}$ d) Find the value of D if Y=100, Z=2, and C=9.

100- 16(2)3

2. Write this combined variation in words:

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varies jointly of the cube of m inversely with Ir

square of r.

4. Suppose that t varies directly with s and inversely with the THE TES

a) How is the value of t changed when the value of s is doubled?

b) How is the value of t changed when the value of r is doubled?

+ will be one fourth

3. a) These points form a direct variation relationship. Find the missing value K-XY=8-4=32

(8,4) & (20,?)

204-32

b) Find the missing value if these two points are part of an inverse variation relationship

- X - X - X - X