Algebra 2 Bellwork Friday, January 15, 2016

- 1. *Q* varies jointly with the *A* and the cube of *B* and inversely with the square of *C*. Q = 57.6 when A = 6, B = 4, and C = 5
- a) Write a variation equation with the value of k rounded to the nearest hundredth as necessary.

b) Find the value of B when Q = 750, A = 10, and C = 8. Round to the nearest hundredth as necessary.

2. *P* varies directly with the square of *H* and inversely with the product of *T* and *W*. *P* = 19.2 when H = 8, T = -2, and W = 6

a) Write a variation equation with the value of k rounded to the nearest hundredth as necessary.

b) Find the value of W when P = 120, H = 5, T = 18

3. The graph of an Inverse Variation relationship passes through the point (5,24). Find another point that could be on this graph.

4. The graph of a Direct Variation relationship passes through the point (20, -15). Find another point that could be on this graph.

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