

#1 Quiz Review 1-1, 1-2, & 1-4

1) five times the quantity x squared plus three, minus f .

$$5(x^2 + 3) - f$$

2) $3^4 = 3 \cdot 3 \cdot 3 \cdot 3 = 81$

3) $\frac{x^3 - y^3}{z} \rightarrow \frac{3^3 - 2^3}{19} \rightarrow \frac{27 - 8}{19} \rightarrow \frac{19}{19} = 1$

4) $3 \times 2 - 6 \div 2 + 5$
 $6 - 6 \div 2 + 5$
 $6 - 3 + 5$
 $3 + 5 = 8$

5) ~~30x~~ three times the sum of x and y increased by five times the product of x and $3y$.

$$3(x + y) + 5(3xy)$$

6) $3 + 2(xy + 3z) + 4xy$

$$3 + 2xy + 6z + 4xy$$

$$3 + 6xy + 6z$$

7) $2x + 5x + 4(x + 3)$

$$7x + 4x + 12$$

$$11x + 12$$

8) 5 times the sum of x and 3 increased by 10.

$$5(x + 3) + 10$$