Directions: Circle the factoring method (GCF, DOTS, or TRI) and then fully factor the

 following expressions. If the expression does not factor write “DNF.”

1) $6x^{3}+9x^{2}-18x=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ GCF DOTS TRI DNF

2) $x^{2}-49=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ GCF DOTS TRI DNF

3) $2ab^{2}-8a^{2}b^{3}=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ GCF DOTS TRI DNF

$4) x^{2}-12x+32=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ GCF DOTS TRI DNF

5) $4x^{2}+81=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ GCF DOTS TRI DNF

6) $x^{2}-24x-52=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ GCF DOTS TRI DNF

7) $16x^{2}-25=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ GCF DOTS TRI DNF

8) $x^{2}+8x-48=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ GCF DOTS TRI DNF

9) $x^{2}+16x-10$ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ GCF DOTS TRI DNF

10) $25x^{2}-100=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ GCF DOTS TRI DNF