**GSE Algebra 1 Warm – up 3/19/19 Name:**

**Using the discriminant,** $b^{2}-4ac$**, tell what kind of solutions each problem would have.**

1. $3x^{2}-4x+5=0$ 2) $-2x^{2}+7x=0$ 3) $4x^{2}=49$
2. $x^{2}-4x-12=0$ 5) $3x^{2}-x=-6$ 6) $x^{2}+7=-4x$

Complete the square to solve for x.

1. $x^{2}-8x-1=0$

Factor the following.

1. $9x^{2}-121$ 9) $4x^{2}+12x-7$ 10) $4x^{3}-196x$