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| **Unit 2 Placemat (Foundations skills needed for Unit 2)** |
| **Simplify each expression:**1. $1-\sqrt{36}$
2. $\sqrt{32}$
3. $-2+\sqrt{0}$
4. $\sqrt{\left(-3\right)^{2}-4\left(1\right)\left(2\right)}$
5. $-\frac{6}{2\left(3\right)}$
 | **Set each equation equal to zero:**1. $3x^{2}-4=5x$
2. $-1+x=x^{2}$
3. $2x\left(x-1\right)=x+7$
 | **Solve each equation for x:**1. $\left(x-4\right)^{2}=36$
2. $\left(x+7\right)^{2}=1$
3. $\left(x-2\right)^{2}=100$
 | **Put each of the following into Standard Form and state the coefficients a, b, and c:**1. $4x-2+5x^{2}=0$
2. $2x^{2}-4+9x=0$
3. $x^{2}-8=4x+7$
4. $3x\left(x-2\right)+8=-9$
5. $\left(x-1\right)^{2}-4=0$
6. $\left(x+2\right)^{2}+10=0$
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| **Solve each of the following by factoring:**1. $27=9h$
2. $3y^{2}+y-4=-3y$
3. $2g\left(g+1\right)=7g-2$
4. $16x^{2}-64=0$
5. $x^{2}+4=4x$
6. $8m\left(m-1\right)=0$

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