**11.1 – SOLVING QUADRATICS BY FACTORING**

1. Write the equation with zero as one side.
2. Factor the other side of the equation.
3. Set each factor equal to zero and solve.

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| 1. $x\left(x-2\right)=0$

 solution: \_\_\_\_\_\_\_\_\_ | 1. $\left(x-3\right)\left(x+4\right)=0$

 solution: \_\_\_\_\_\_\_\_\_ |
| 1. $\left(2x-4\right)\left(3x+5\right)=0$

 solution: \_\_\_\_\_\_\_\_\_ | 1. $x^{2}=x+30$

 solution: \_\_\_\_\_\_\_\_\_ |
| 1. $3x^{2}-10x=8$

 solution: \_\_\_\_\_\_\_\_\_ | 1. $x^{2}-2x=0$

 solution: \_\_\_\_\_\_\_\_\_ |
| 1. $2x^{2}-8x-24=0$

 solution: \_\_\_\_\_\_\_\_\_ | 1. $x^{2}-25=0$

 solution: \_\_\_\_\_\_\_\_\_ |