$\qquad$

## Remember to show work!

Directions: Solve the given quadratics using the best method.

| 1. $\mathrm{x}^{2}-14 \mathrm{x}-15=0$ | 2. $3 \mathrm{x}^{2}+2 \mathrm{x}-8=0$ |
| :---: | :---: |
| 3. $5 \mathrm{x}^{2}+4 \mathrm{x}-12=0$ | 4. $2 \mathrm{x}^{2}-50=0$ |
| 5. $\mathrm{x}^{2}+3 \mathrm{x}=10$ | 6. $5 \mathrm{x}^{2}+10 \mathrm{x}+5=0$ |
| a) $x=-2$ and $x=-5$ <br> b) $x=2$ and $x=-5$ <br> c) $x=3$ and $x=10$ <br> d) $x=10$ and $x=-1$ | a) $x=1$ <br> b) $x=-1$ <br> c) $x=5$ <br> d) $x=-10$ |
| 7. $3 \mathrm{x}^{2}=27$ | 8. $(x+8)^{2}=32$ |
| 9. $\mathrm{x}^{2}-4=5$ | 10. $\mathrm{x}^{2}-6 \mathrm{x}+5=0$ |
| a) $x=1$ and $x=-1$ <br> b) $x=2$ and $x=-2$ <br> c) $x=3$ and $x=-3$ <br> d) $x=4$ and $x=-4$ | a) $x=-5$ and $x=-1$ <br> b) $x=7$ and $x=1$ <br> c) $x=5$ and $x=1$ <br> d) $x=2$ and $x=-2$ |
| 11. $x^{2}+4 x-1=2$ | 12. $-7 x^{2}-5 x+1=0$ |


| 13. $\mathrm{x}^{2}-4 \mathrm{x}-12=0$ | 14. $x^{2}+6=5 x$ <br> a) $x=6$ and $x=4$ <br> b) $x=1$ and $x=-1$ <br> c) $x=2$ and $x=-2$ <br> d) $x=3$ and $x=2$ |
| :---: | :---: |
| Error Analysis: Find and circle the error. Then solve correctly. <br> 15. Solve the equation by completing the square. $\begin{gathered} x^{2}-8 x+12=0 \\ x^{2}-8 x=12 \\ x^{2}-8 x+16=12 \\ (x-4)^{2}=28 \\ x-4=\sqrt{28} \\ x=4 \pm 2 \sqrt{7} \end{gathered}$ | Find the zeros of the functions graphed below <br> 16. <br> 17. |
| 18. What are the solutions of $(x+5)(x-2)=0$ ? | 19. What are the solutions of $(2 x-4)(3 x+7)=0$ ? <br> a) $x=-2$ and $x=-7$ <br> b) $x=2$ and $x=-\frac{7}{3}$ <br> c) $x=-4$ and $x=\frac{7}{3}$ <br> d) $x=2$ and $x=-2$ |

